KEREM® Plast

SOFT AND RIGID PVC COMPOUND

# PRODUCT SPECIFICATION DATA SHEET

## KRM 1062 / K

| General | |
|---|---|
| Features | |
| Uses | |
| RoHS Compliance | |
| Appearance | |
| Forms | |
| Processing method | |

**Properties** *( @ 23 $^0$C ; 50 % r.h. )*

| Test | Test Method | Typical Value |
|---|---|---|
| Density , *gr / cm$^3$* | ISO 1183 | 1.17 ± 0.03 |
| Shore A Hardness | ISO 868 | 60 ± 2 |
| Shore D Hardness | ISO 868 | 16 ± 2 |
| Unaged Tensile Strength , *Mpa* | ISO 527 | 9.5 min. |
| Heat Aging, Change in Tensile Strength, % | | |
| 168 hr, @ 80$^0$C | ISO 527 | |
| 168 hr, @ -20$^0$C | IEC 60811-1-2 | - |
| Unaged Elongation at Break , % | ISO 527 | 433 min. |
| Heat Aging, Change in Elongation at Break , % | | |
| 168 hr, @ 80$^0$C | ISO 527 | |
| 168 hr, @ -20$^0$C | IEC 60811-1-2 | - |
| Resistance of water absorption, % | ISO 62 | 0,18 |
| Weight Loss @ 105$^0$C, *mg / cm$^2$* | ASTM D 2288 | 0,85 |
| Limiting Oxygen Index, % | ISO 4589 - 2 | |
| Thermal Stability ( 180 $^0$C / 10 min. ) | EN 60811-3-2 | OK. Change into yellow |
| Melt Flow Index , *g / 10 min.* *( @ 175 $^0$C ; 5 kg )* | ISO 1133 | 4.83 min. |

Ataturk San. Bolgesi 75. Yil Cd. Mimoza Sk. No:13 34555 Hadımköy ISTANBUL TURKEY
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# CERTIFICATE

**UFUK PLASTİK – OSMAN ALBAYRAK**

**75. YIL MH. OTO SANAYİ SİT. 11231 SK. M BLOK NO: 8**
**ODUNPAZARI – ESKİŞEHİR / TURKEY – TÜRKİYE**

*This certificate the above-mentioned company, according to the ISO 9001 standard and the company' s request for the following scope given by the QEC CERTIFICATION.*

*Bu sertifika yukarıda adı geçen firmaya, ISO 9001 standardına göre ve firmanın talebi üzerine aşağıda belirtilen kapsamda QEC CERTIFICATION tarafından verilmiştir.*

# ISO 9001:2008

Scope Of The Certification / Belgelendirme Kapsamı

**PVC Electrical Parts Found on White Goods and Automotive Sector Macarons (Plastic Product) Manufacturing.**
**(Beyaz Eşya ve Otomotiv Sektöründeki Elektrikli Aksamı Üzerinde Bulunan PVC Makaron (Plastik Mamul) İmalatı)**
**Clauses 7.3 and 7.5.2 are excluded with justification as detailed in company' s Quality Manual.**

| Date Of Issue / Veriliş Tarihi | Certificate No. / Sertifika No. | Expiry Date / Geçerlilik Tarihi |
|---|---|---|
| 28.09.2013 | 489592/TR/Q | 28.09.2014 |

Certification Manager / Belgelendirme Müdürü

QEC ISO 9001:2008

UKAS QUALITY MANAGEMENT

*Belge kapsamı, standard gerekliliklerinin uygulanabilirliği ve sertifikanın geçerliliğini* **www.qec.co.uk** *sitesinden teyid edebilirsiniz.*

# TEST REPORT



**TEST REPORT NUMBER : TURR130137297** DATE: 20 September, 2013

APPLICANT: **Ufuk Plastik ve Koltuk Sistemleri San.**

ADDRESS: 75. Yıl Oto San. Sit. 11231.Sk. M Blok No: 8 Eskişehir / TURKEY
Fax : 0530 113 04 70
**Attention : Osman Albayrak (info@ufukplastik.net)**

SAMPLE DESCRIPTION :
**Sample 1** One sample of White PVC Macaron
**Sample 2** One sample of Black PVC Shrinkable macaron

DATE IN : **17 /September /2013 (12:30)**

DATE OUT : **20 /September /2013**

MANUFACTURER'S NAME : UFUK PLASTİK

BUYER'S NAME : BAYCAN A.Ş.

REQUEST : RoHS Test was performed according to 2011/65/EU Directive.

RESULTS : SEE ATTACHMENT

CONCLUSION :

| Testing Item | Conclusion |
|---|---|
| Sample 1 | PASS |
| Sample 2 | PASS |

The test results relate only to the items tested. The whole and/or the part of this test report shall not be reproduced and shall not be shared with third parties, nor to be used for PR activities without the written permission of INTERTEK Test Hizmetleri A.S.
The reported uncertainity is based on a standard uncertainity multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainity evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainity considered. When uncertainity is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.

PP Bora Şirinbilek
Coordinator

Neslihan Sözer
Chemical Laboratory Manager

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Cad. No.23 Altindag Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax: +90.212. 452 80 55
e-mail :intertekcg.turkiye@intertek.com
www.intertek-turkey.com

UKAS TESTING
2111

dogan.kilinc

(A) **TEST RESULT SUMMARY ACCORDING TO IEC 62321 : 2008**
**Electrotechnical Products-Determination of Levels of Six Regulated Substances**

| TESTING ITEM | RESULT | |
|---|---|---|
| | Sample | |
| | 1 | 2 |
| Cadmium (Cd) Content | ND | ND |
| Chromium VI (Cr+6) Content (ppm) (for non - metal) | ND | ND |
| Chromium VI (Cr+6) Content (µg/cm²) (for metal) | NA | NA |
| Chromium VI (Cr+6) Result (By spot test on metal) | NA | NA |
| Lead (Pb) Content | ND | ND |
| Mercury (Hg) Content | ND | ND |
| Flame Retardants | | |
| **Polybrominated Biphenyls (PBB)** | **ND** | **ND** |
| Monobromobiphenyl (MonoBB) | ND | ND |
| Dibromobiphenyl (DiBB) | ND | ND |
| Tribromobiphenyl (TriBB) | ND | ND |
| Tetrabromobiphenyl (TetraBB) | ND | ND |
| Pentabromobiphenyl (PentaBB) | ND | ND |
| Hexabromobiphenyl (HexaBB) | ND | ND |
| Heptabromobiphenyl (HeptaBB) | ND | ND |
| Octabromobiphenyl (OctaBB) | ND | ND |
| Nonabromobiphenyl (NonaBB) | ND | ND |
| Decabromobiphenyl (DecaBB) | ND | ND |
| **Polybrominated Diphenyl Ethers (PBDE)** | **ND** | **ND** |
| Monobromodiphenyl Ether (MonoBDE) | ND | ND |
| Dibromodiphenyl Ether (DiBDE) | ND | ND |
| Tribromodiphenyl Ether (TriBDE) | ND | ND |
| Tetrabromodiphenyl Ether (TetraBDE) | ND | ND |
| Pentabromodiphenyl Ether (PentaBDE) | ND | ND |
| Hexabromodiphenyl Ether (HexaBDE) | ND | ND |
| Heptabromodiphenyl Ether (HeptaBDE) | ND | ND |
| Octabromodiphenyl Ether (OctaBDE) | ND | ND |
| Nonabromodiphenyl Ether (NonaBDE) | ND | ND |
| Decabromodiphenyl Ether (DecaBDE) | ND | ND |

Remarks : ppm=Parts per million based on dry weight of sample
µg/cm²=Microgram per square centimetre
mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
ND =Not detected NA =Not applicable NR =Not requested

**********

(B) REQUIREMENT:

| SUBSTANCE | LIMITS |
|---|---|
| Cadmium (Cd) Content | 0.01 % (100 ppm) |
| Chromium VI (Cr+6) Content (ppm) (for non metal) | 0.1 % (1000 ppm) |
| Lead (Pb) Content | 0.1 % (1000 ppm) |
| Mercury (Hg) Content | 0.1 % (1000 ppm) |
| Flame Retardants | 0.1 % (1000 ppm) |

(C) TEST METHOD :

| Testing Item | Testing Method | Reporting Limit |
|---|---|---|
| Cadmium (Cd) Content | With reference to IEC 62321:2008,by acid digestion and determined by ICP-OES | 2 ppm |
| Lead (Pb) Content | With reference to IEC 62321:2008,by acid digestion and determined by ICP-OES | 2 ppm |
| Mercury (Hg) Content | With reference to IEC 62321:2008,by acid digestion and determined by ICP-OES | 2 ppm |
| Chromium VI (Cr6+) (For non-metal) | With reference to IEC 62321:2008,by alkaline digestion and determined by UV-VIS spectrophotometer | 1 ppm |
| Chromium VI (Cr6+) (For metal) | With reference to IEC 62321:2008,by SPOT TEST | 1 ppm (IN TESTING SOLUTION) |
| Chromium VI (Cr6+) (For metal) | With reference to IEC 62321:2008 ,by boiling water extraction and determined by UV-VIS spectrophotometer | 0.02 mg/kg with 50 $cm^2$ (IN TESTING SOLUTION) |
| PBBs/PBDEs | With reference to IEC 62321:2008,by solvent extraction and determined by GC/MS and HPLC | 5 ppm |



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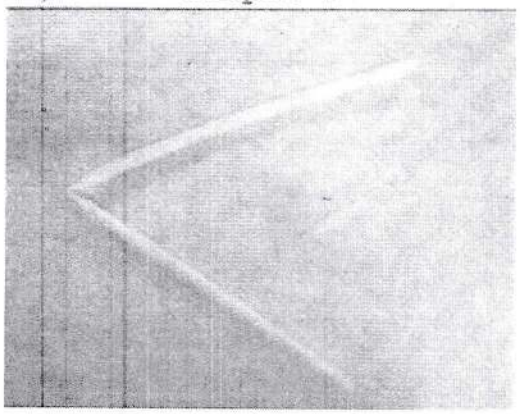
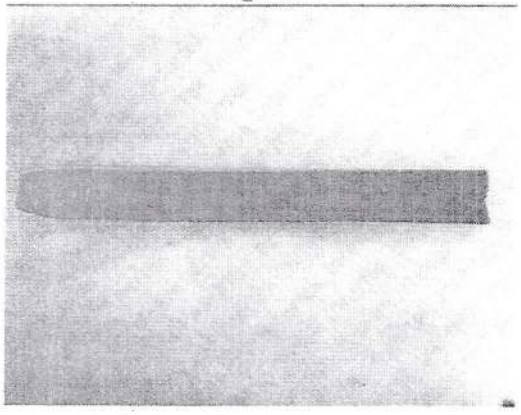
Sample 1



Sample 2



## END OF TEST REPORT ##

Intertek Test Hizmetleri A.S.
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# TEST REPORT



**REPORT NUMBER :** **TURA130137299**

**APPLICANT NAME** **Ufuk Plastik ve Koltuk Sistemleri Sanayi**

**ADDRESS** 75. Yıl Mh. Oto Sanayiciler Sitesi 11231. Sok. M. Blok No:8 ESKİŞEHİR
TEL NO: 0222 246 08 30 FAX NO: 0222 246 06 27
**Attention : Osman Albayrak (info@ufukplastik.net)**

**SAMPLE DESCRIPTION :**
**Sample 1:** One sample of White PVC Macaron
**Sample 2:** One sample of Black PVC Shrinkable Macaron

**DATE IN :** **17 September, 2013 (12:30)**

**DATE OUT :** **08 October, 2013**

**BUYER'S NAME :** BAYCAN A.Ş.

**MANUFACTURER'S NAME :** UFUK PLASTİK

**REQUEST :** SVHC Testing regarding REACH Regulation (EC) No. 1907/2006 for updated SVHC List of 20th June, 2013

The test results relate only to the items tested. The whole and/or the part of this test report shall not be reproduced and shall not be shared with third parties, nor to be used for PR activities without the written permission of INTERTEK Test Hizmetleri A.S
The reported uncertainity is based on a standard uncertainity multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainity evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainity considered. When uncertainity is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.

Bora Şirinbilek
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Chemical Laboratory Manager

2111

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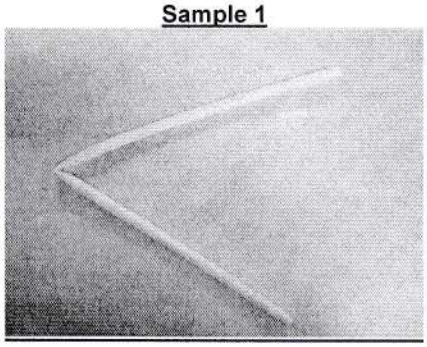
130137299

| Test Method | Result | Requirements |
|---|---|---|

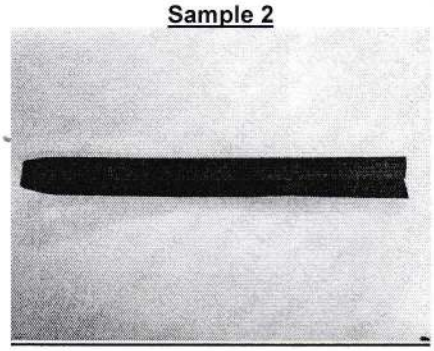
**Sample:**

**Sample 1**



**Weight : 13.90 g**

**Sample 2**



**Weight : 7.75 g**

**Tested Component Parts:**

**CS=Combined Sample**

| CS | Description | |
|---|---|---|
| 1 | CS1 | Combined sample of White PVC Macaron, Black PVC Shrinkable Macaron |

| Test Method | Result | Requirements |
|---|---|---|

(□) SVHC Testing Results
By a combination of X-Ray Fluorescence Spectroscopy, Inductively Coupled Argon Plasma Spectrometry, Gas Chromatography – Mass Spectrometry, Liquid Chromatography - Mass Spectrometry, UV-VIS Spectrophotometer, Ion Chromatography, Gas Chromatography - Electron Capture Detector, Headspace Gas Chromatography - Mass Spectrometry and High-Performance Liquid Chromatography.

| Chemical Substance | EC No. | CAS No. | Results % (w/w) |
|---|---|---|---|
| Cobalt Dichloride * | 231-589-4 | 7646-79-9 | <0.05 |
| Diarsenic Pentaoxide * | 215-116-9 | 1303-28-2 | <0.05 |
| Diarsenic Trioxide * | 215-481-4 | 1327-53-3 | <0.05 |
| Lead Hydrogen Arsenate * | 232-064-2 | 7784-40-9 | <0.05 |
| Triethyl Arsenate * | 427-700-2 | 15606-95-8 | <0.05 |
| Sodium Dichromate * | 234-190-3 | 7789-12-0, 10588-01-9 | <0.05 |
| Bis (Tributyltin) Oxide (TBTO)* | 200-268-0 | 56-35-9 | <0.05 |
| Anthracene | 204-371-1 | 120-12-7 | <0.05 |
| 4,4'-Diaminodiphenylmethane (MDA) | 202-974-4 | 101-77-9 | <0.05 |
| Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD) | 247-148-4 221-695-9 | 25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8) | <0.05 |
| 5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene) | 201-329-4 | 81-15-2 | <0.05 |
| Bis (2-Ethylhexyl) Phthalate (DEHP) | 204-211-0 | 117-81-7 | 4.66 |
| Dibutyl Phthalate (DBP) | 201-557-4 | 84-74-2 | <0.05 |
| Benzyl Butyl Phthalate (BBP) | 201-622-7 | 85-68-7 | <0.05 |
| Short Chain Chlorinated Paraffins ($C_{10-13}$) | 287-476-5 | 85535-84-8 | <0.05 |
| Lead Chromate * | 231-846-0 | 7758-97-6 | <0.05 |
| Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) * | 235-759-9 | 12656-85-8 | <0.05 |
| Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) * | 215-693-7 | 1344-37-2 | <0.05 |
| Tris (2-Chloroethyl) Phosphate | 204-118-5 | 115-96-8 | <0.05 |
| 2,4-Dinitrotoluene | 204-450-0 | 121-14-2 | <0.05 |
| Diisobutyl Phthalate (DIBP) | 201-553-2 | 84-69-5 | <0.05 |
| Coal Tar Pitch, High Temperature | 266-028-2 | 65996-93-2 | <0.05 |
| Anthracene Oil | 292-602-7 | 90640-80-5 | <0.05 |
| Anthracene Oil, Anthracene Paste, Distn. Lights | 295-278-5 | 91995-17-4 | <0.05 |
| Anthracene Oil, Anthracene Paste, Anthracene Fraction | 295-275-9 | 91995-15-2 | <0.05 |
| Anthracene Oil, Anthracene-low | 292-604-8 | 90640-82-7 | <0.05 |
| Anthracene Oil, Anthracene Paste | 292-603-2 | 90640-81-6 | <0.05 |
| Acrylamide | 201-173-7 | 79-06-1 | <0.05 |
| Boric Acid * | 233-139-2/ 234-343-4 | 10043-35-3, 11113-50-1 | <0.05 |
| Disodium Tetraborate, Anhydrous * | 215-540-4 | 1330-43-4, 12179-04-3, 1303-96-4 | <0.05 |
| Tetraboron Disodium Heptaoxide, Hydrate * | 235-541-3 | 12267-73-1 | <0.05 |
| Sodium Chromate * | 231-889-5 | 7775-11-3 | <0.05 |
| Potassium Chromate * | 232-140-5 | 7789-00-6 | <0.05 |
| Ammonium Dichromate * | 232-143-1 | 7789-09-5 | <0.05 |
| Potassium Dichromate * | 231-906-6 | 7778-50-9 | <0.05 |
| Trichloroethylene | 201-167-4 | 79-01-6 | <0.05 |

| Test Method | Result | Requirements |
|---|---|---|

| Chemical Substance | EC No. | CAS No. | Results % (w/w) |
|---|---|---|---|
| 2-Methoxyethanol | 203-713-7 | 109-86-4 | <0.05 |
| 2-Ethoxyethanol | 203-804-1 | 110-80-5 | <0.05 |
| Cobalt Sulphate * | 233-334-2 | 10124-43-3 | <0.05 |
| Cobalt Dinitrate * | 233-402-1 | 10141-05-6 | <0.05 |
| Cobalt Carbonate * | 208-169-4 | 513-79-1 | <0.05 |
| Cobalt Diacetate * | 200-755-8 | 71-48-7 | <0.05 |
| Chromium Trioxide * | 215-607-8 | 1333-82-0 | <0.05 |
| Chromic Acid *<br>Dichromic Acid *<br>Oligomers of Chromic Acid and Dichromic Acid * | 231-801-5<br>236-881-5 | 7738-94-5<br>13530-68-2<br>-- | <0.05 |
| Strontium Chromate* | 232-142-6 | 7789-06-2 | <0.05 |
| 2-ethoxyethyl acetate (2-EEA) | 203-839-2 | 111-15-9 | <0.05 |
| 1,2-Benzenedicarboxylic acid, di-$C_{7-11}$-branched and linear alkyl esters (DHNUP) | 271-084-6 | 68515-42-4 | <0.05 |
| Hydrazine | 206-114-9 | 7803-57-8<br>302-01-2 | <0.05 |
| 1-methyl-2-pyrrolidone | 212-828-1 | 872-50-4 | <0.05 |
| 1,2,3-trichloropropane | 202-486-1 | 96-18-4 | <0.05 |
| 1,2-Benzenedicarboxylic acid, di-$C_{6-8}$-branched alkyl esters, $C_7$-rich (DIHP) | 276-158-1 | 71888-89-6 | <0.05 |
| Lead dipicrate* | 229-335-2 | 6477-64-1 | <0.05 |
| Lead styphnate* | 239-290-0 | 15245-44-0 | <0.05 |
| Lead azide; Lead diazide* | 236-542-1 | 13424-46-9 | <0.05 |
| Phenolphthalein | 201-004-7 | 77-09-8 | <0.05 |
| 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 202-918-9 | 101-14-4 | <0.05 |
| N,N-dimethylacetamide (DMAC) | 204-826-4 | 127-19-5 | <0.05 |
| Trilead diarsenate* | 222-979-5 | 3687-31-8 | <0.05 |
| Calcium arsenate* | 231-904-5 | 7778-44-1 | <0.05 |
| Arsenic acid* | 231-901-9 | 7778-39-4 | <0.05 |
| Bis(2-methoxyethyl) ether | 203-924-4 | 111-96-6 | <0.05 |
| 1,2-Dichloroethane | 203-458-1 | 107-06-2 | <0.05 |
| 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) | 205-426-2 | 140-66-9 | <0.05 |
| 2-Methoxyaniline; o-Anisidine | 201-963-1 | 90-04-0 | <0.05 |
| Bis(2-methoxyethyl) phthalate(DMEP) | 204-212-6 | 117-82-8 | <0.05 |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 500-036-1 | 25214-70-4 | <0.05 |
| Pentazinc chromate octahydroxide* | 256-418-0 | 49663-84-5 | <0.05 |
| Potassium hydroxyoctaoxodizincate di-chromate* | 234-329-8 | 11103-86-9 | <0.05 |
| Dichromium tris(chromate)* | 246-356-2 | 24613-89-6 | <0.05 |
| Aluminosilicate Refractory Ceramic Fibres * | Extracted from index No. 650-017-00-8 | (Index No. 650-017-00-8) | <0.05 |
| Zirconia Aluminosilicate Refractory Ceramic Fibres * | Extracted from index No. 650-017-00-8 | (Index No. 650-017-00-8) | <0.05 |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 203-977-3 | 112-49-2 | <0.05 |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 | <0.05 |
| Diboron trioxide* | 215-125-8 | 1303-86-2 | <0.05 |
| Formamide | 200-842-0 | 75-12-7 | <0.05 |
| Lead(II) bis(methanesulfonate) * | 401-750-5 | 17570-76-2 | <0.05 |

| Test Method | Result | Requirements |
|---|---|---|

| Chemical Substance | EC No. | CAS No. | Results % (w/w) |
|---|---|---|---|
| TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) | 219-514-3 | 2451-62-9 | <0.05 |
| β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 423-400-0 | 59653-74-6 | <0.05 |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 | <0.05 |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 101-61-1 | <0.05 |
| [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 208-953-6 | 548-62-9 | <0.05 |
| [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 219-943-6 | 2580-56-5 | <0.05 |
| α,α-Bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 229-851-8 | 6786-83-0 | <0.05 |
| 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 209-218-2 | 561-41-1 | <0.05 |
| Bis(pentabromophenyl) ether (DecaBDE) | 214-604-9 | 1163-19-5 | <0.05 |
| Pentacosafluorotridecanoic acid | 276-745-2 | 72629-94-8 | <0.05 |
| Tricosafluorododecanoic acid | 206-203-2 | 307-55-1 | <0.05 |
| Henicosafluoroundecanoic acid | 218-165-4 | 2058-94-8 | <0.05 |
| Heptacosafluorotetradecanoic acid | 206-803-4 | 376-06-7 | <0.05 |
| 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [ covering well-defined substances and UVCB substances, polymers and homologues] | - | - | <0.05 |
| 4-Nonylphenol, branched and linear: substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | - | - | <0.05 |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 204-650-8 | 123-77-3 | <0.05 |

| Test Method | Result | Requirements |
|---|---|---|

| Chemical Substance | EC No. | CAS No. | Results % (w/w) |
|---|---|---|---|
| Cyclohexane-1,2-dicarboxylic anhydride [1]<br>Cis-cyclohexane-1,2-dicarboxylic anhydride [2]<br>Trans-cyclohexane-1,2-dicarboxylic anhydride [3]<br><br>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]. | 201-604-9,<br>236-086-3,<br>238-009-9 | 85-42-7,<br>13149-00-3,<br>14166-21-3 | <0.05 |
| Hexahydromethylphthalic anhydride [1],<br>Hexahydro-4-methylphthalic anhydride [2],<br>Hexahydro-1-methylphthalic anhydride [3],<br>Hexahydro-3-methylphthalic anhydride [4]<br>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] | 247-094-1,<br>243-072-0,<br>256-356-4,<br>260-566-1 | 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | <0.05 |
| Methoxy acetic acid | 210-894-6 | 625-45-6 | <0.05 |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 284-032-2 | 84777-06-0 | <0.05 |
| Diisopentylphthalate (DIPP) | 210-088-4 | 605-50-5 | <0.05 |
| N-pentyl-isopentylphthalate | - | 776297-69-9 | <0.05 |
| 1,2-Diethoxyethane | 211-076-1 | 629-14-1 | <0.05 |
| N,N-dimethylformamide | 200-679-5 | 68-12-2 | <0.05 |
| Dibutyltin dichloride (DBTC)* | 211-670-0 | 683-18-1 | <0.05 |
| Acetic acid, lead salt, basic* | 257-175-3 | 51404-69-4 | <0.05 |
| trilead bis(carbonate) dihydroxide* | 215-290-6 | 1319-46-6 | <0.05 |
| Lead oxide sulfate* | 234-853-7 | 12036-76-9 | <0.05 |
| [Phthalato(2-)]dioxotrilead * | 273-688-5 | 69011-06-9 | <0.05 |
| Dioxobis(stearato)trilead* | 235-702-8 | 12578-12-0 | <0.05 |
| Fatty acids, C16-18, lead salts* | 292-966-7 | 91031-62-8 | <0.05 |
| Lead bis(tetrafluoroborate)* | 237-486-0 | 13814-96-5 | <0.05 |
| Lead cyanamidate* | 244-073-9 | 20837-86-9 | <0.05 |
| Lead dinitrate* | 233-245-9 | 10099-74-8 | <0.05 |
| Lead monoxide (lead oxide)* | 215-267-0 | 1317-36-8 | <0.05 |
| Orange lead (lead tetroxide)* | 215-235-6 | 1314-41-6 | <0.05 |
| Lead titanium trioxide* | 235-038-9 | 12060-00-3 | <0.05 |
| Lead titanium zirconium oxide* | 235-727-4 | 12626-81-2 | <0.05 |
| Pentalead tetraoxide sulphate* | 235-067-7 | 12065-90-6 | <0.05 |
| Pyrochlore, antimony lead yellow* | 232-382-1 | 8012-00-8 | <0.05 |
| Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped*<br>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] | 272-271-5 | 68784-75-8 | <0.05 |

| Test Method | Result | Requirements |
|---|---|---|

| Chemical Substance | EC No. | CAS No. | Results % (w/w) |
|---|---|---|---|
| ilicic acid, lead salt* | 234-363-3 | 11120-22-2 | <0.05 |
| Sulfurous acid, lead salt, dibasic* | 263-467-1 | 62229-08-7 | <0.05 |
| Tetraethyllead* | 201-075-4 | 78-00-2 | <0.05 |
| Tetralead trioxide sulphate* | 235-380-9 | 12202-17-4 | <0.05 |
| Trilead dioxide phosphonate* | 235-252-2 | 12141-20-7 | <0.05 |
| Furan | 203-727-3 | 110-00-9 | <0.05 |
| Methyloxirane (propylene oxide) | 200-879-2 | 75-56-9 | <0.05 |
| Diethyl sulphate | 200-589-6 | 64-67-5 | <0.05 |
| Dimethyl sulphate | 201-058-1 | 77-78-1 | <0.05 |
| 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 143860-04-2 | <0.05 |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 88-85-7 | <0.05 |
| 4,4'-methylenedi-o-toluidine | 212-658-8 | 838-88-0 | <0.05 |
| 4,4'-oxydianiline and its salts | 202-977-0 | 101-80-4 | <0.05 |
| 4-Aminoazobenzene | 200-453-6 | 60-09-3 | <0.05 |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 202-453-1 | 95-80-7 | <0.05 |
| 6-methoxy-m-toluidine (p-cresidine) | 204-419-1 | 120-71-8 | <0.05 |
| Biphenyl-4-ylamine | 202-177-1 | 92-67-1 | <0.05 |
| o-aminoazotoluene | 202-591-2 | 97-56-3 | <0.05 |
| o-Toluidine | 202-429-0 | 95-53-4 | <0.05 |
| N-methylacetamide | 201-182-6 | 79-16-3 | <0.05 |
| 1-bromopropane; n-propyl bromide | 203-445-0 | 106-94-5 | <0.05 |
| Cadmium* | 231-152-8 | 7440-43-9 | <0.05 |
| Cadmium oxide* | 215-146-2 | 1306-19-0 | <0.05 |
| Dipentyl phthalate (DPP) | 205-017-9 | 131-18-0 | <0.05 |
| 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] | -- | -- | <0.05 |
| Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 3825-26-1 | <0.05 |
| Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 335-67-1 | <0.05 |

Remarks : SVHC = Substance of Very High Concern
* = Determination was based on elemental analysis
Material were screened in composite and results were reported in proportion with the whole product weight.

REACH requirement : As per Article 33(1) of the REACH Regulation (EC1907/2006),recipients of product must be provided with information of safe use if any of the tested substances (SVHC)exceeded 0.1%(w/w). A product meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1%(w/w).

## END OF TEST REPORT ##



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