# Technical Data Sheet

## PCR PET Recompound

## Product Code: 000605

### Description

**PCR PET 000605** is at least 90% PCR (post-consumer recycled) Polyethylene Terephthalate (PET) material with a good heat resistance, designed for injection molding process.
**PCR PET 000605** is modified by 100% PCR PET which made from PCR products, including water bottles, these products are manufactured through high quality recycling process, consist of hot washing, melt filtration, pelletization and degassing etc., comply with GRS (Global Recycled Standard) and food contact materials (FCM) regulations. All formula technology belongs to SMART research and development and mass production.

| **Applications** | |
|---|---|
| Cosmetic Compacts | Packaging components |
| Tubs | Caps |
| Home appliance | |

| **Special Features** | |
|---|---|
| High glossy surface | Good impact resistance |
| Suitable MFI for injection processing | Good surface adhesion |

| **Compliance** | |
|---|---|
| BPA Free | FDA compliant |
| REACH (224 SVHC) | RoHS Directive (EU) 2011/65 |

| **Physical Properties** | **Value** | **Units** | **Test Method** |
|---|---|---|---|
| Density | 1.32 | g/cm³ | ISO 1183 |
| MFR (260°C/ 2,16kg) | 30 | g/10 min | ISO 1133 |
| Tensile Stress (50mm/min) | 56 | MPa | ISO 527-2 |

Sinox Polymers GmbH
Grünenweg 5-7
DE-28195 Bremen
info@sinox-polymers.com
+49 178 / 8175 168

Handelsregisternummer:
HRB 33699, Amtsgericht Bremen
Ust-IdNr: DE319539787
Geschäftsführer:
Marvin Pfeiffer, Kai Michael Pfeiffer

Bankverbindung
Deutsche Bank
IBAN:
DE68 2907 0050 0211 0799 00
BIC: DEUTDEHBXXX

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|---|---|---|---|
| Tensile Modulus | 2330 | MPa | ISO 527-2 |
| Elongation at Break | 45 | % | ISO 527-2 |
| Flexural Modulus | 2140 | MPa | ISO 178 |
| Flexural Strength | 78 | MPa | ISO 178 |
| Ash Content | 0.05 | % | ISO 3451-1 |
| Charpy Impact Strength, unnotched (23°C) | NB | KJ/m² | ISO 180 |
| Charpy Impact Strength, notched (23°C) | 5.6 | KJ/m² | ISO 180 |
| HDT (0,45MPa) | 80 | °C | ISO 75-2 |
| Heavy Metals (Rohs) | Cd, Hg, Pb, Cr | - | N.D. |

**Storage**

PCR PET 000605 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product. More information on storage can be found in Material Safety Data Sheet (MSDS) for this product.

**Recycling**

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

**Disclaimer**

This information contained herein is based on the data available to us and is believed to be correct. However, Sinox makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Each user of the products shall convince himself through all available sources (including finished product testing in its appropriate environment) of the suitability of the products supplied for its particular purpose.

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