

Technical Data Sheet

Icorene - Semi Conductives 1761 SC Black 9002

Metallocene Medium Density Polyethylene

LyondellBasell Industries

Rotomolding

Product Description

ICORENE® 1761SC Black 9002 is a special electrically conductive black medium density metallocene polyethylene powder designed for rotational moulding applications.

It is suitable for use in applications where permanent semi conductive or antistatic behaviour is required. It has a good balance of properties such as toughness, easy flow, reasonable impact, and surface gloss.

General

| | | | |
|-------------------|----------------------|-------------------|----------------|
| Additive | • UV Stabilizer | | |
| Features | • Good Toughness | • Semi Conductive | • UV Resistant |
| Uses | • General Purpose | | |
| Appearance | • Black | | |
| Forms | • Powder | | |
| Processing Method | • Rotational Molding | | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|-------------------------|---------------|
| Density | 0.934 g/cm ³ | 0.934 g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg) | 6.0 g/10 min | 6.0 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield) | 2180 psi | 15.0 MPa | ASTM D638 |
| Flexural Modulus | 87000 psi | 600 MPa | ASTM D790 |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Vicat Softening Temperature | 250 °F | 121 °C | ISO 306 |
| Melting Temperature | 253 °F | 123 °C | ISO 11357 |
| Electrical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Surface Resistivity | 1.0E+5 ohms | 1.0E+5 ohms | IEC 61340-2-3 |

Notes

These are typical property values not to be construed as specification limits.