

Technical Data Sheet

**Icorene - Semi Conductives 3590 SC Black 9002**

Linear Low Density Polyethylene

LyondellBasell Industries

Rotomolding

Product Description

ICORENE® 3590SC Black 9002 is a special electrically conductive black LLDPE 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 finish.

General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• UV Stabilizer
Features	• Good Processability • 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)	8.0 g/10 min	8.0 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	72500 psi	500 MPa	ASTM D790
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	235 °F	113 °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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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