

Technical Data Sheet

**Icorene C-517B**

Polyethylene Copolymer
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® C-517B is designed for rotational molding applications where the final part is to be used in statically sensitive environments. C-517B is a permanent semi-conductive polyolefin compound that has excellent surface and volume resistivity to dissipate static charges, and is fully UV stabilized with good flow and impact properties.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• UV Stabilizer		
Features	• Good Processability • Good Toughness • High Flow	• High Impact Resistance • Low Warpage • Semi Conductive	• UV Resistant
Uses	• Closures • Housings	• Industrial Applications • Semiconductive Shield	• Trays
Appearance	• Black		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.937 g/cm ³	0.937 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Rotational Molded)	2390 psi	16.5 MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, Rotational Molded	150 %	150 %	
Flexural Modulus - 1% Secant (Rotational Molded)	87000 psi	600 MPa	ASTM D790
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Rotational Molded	148 °F	64.5 °C	
264 psi (1.8 MPa), Unannealed, Rotational Molded	111 °F	43.9 °C	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	< 1.0E+6 ohms	< 1.0E+6 ohms	IEC 61340-2-3
Volume Resistivity	< 2.3E+6 ohms·cm	< 2.3E+6 ohms·cm	IEC 61340-2-3
Surface Resistance	< 100000 ohms	< 100000 ohms	IEC 61340-2-3
Volume Resistance	< 100000 ohms	< 100000 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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www.lyondellbasell.com
Publish Date: 2024-03-14

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