

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			
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/cm³	0.937 g/cm³	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.