

Technical Data Sheet

Icorene C-517B CONDUCTIVE BLACK



Polyethylene Copolymer

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.

Regulatory Status

For regulatory compliance information, see *Icorene* C-517B CONDUCTIVE BLACK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Rotomolding
Attribute	Good Processability; Good Toughness; High Flow; High Impact Resistance; Low Warpage; Semi Conductive; UV Resistant
Forms	Powder
Appearance	Black
Additive	UV Stabilizer
Application	Closures; Housings; Industrial Applications; Semiconductive Shield; Trays

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	5.0	g/10 min	ASTM D1238
Density	0.937	g/cm ³	ASTM D1505
Mechanical			
Tensile Elongation at Yield, (Rotational Molded)	150	%	ASTM D638
Tensile Strength at Yield, (Rotational Molded)	16.5	MPa	ASTM D638
Flexural Modulus, (Rotational Molded, 1% Secant)	600	MPa	ASTM D790
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (Rotational Molded)	43.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded)	64.5	°C	ASTM D648
Electrical			
Volume Resistivity	<2.3E+6	ohm*cm	IEC 61340-2-3
Surface Resistivity	<1.0E+6	ohm	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.

Company Information

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

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