

Technical Data Sheet

**Icorene C-420**

Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® C-420 is a permanent semi-conductive rotational molding polyolefin compound that offers the same degree of static dissipation properties, processability, and UV stability as our C-517, but with higher stiffness.

General

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.939 g/cm ³	0.939 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 Stress (Yield)	2900 psi	20.0 MPa	ISO 527-2
Flexural Modulus - 1% Secant	101000 psi	699 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Low Temperature Impact (0.13 in (3.18 mm))	1.58 ft-lb/in	84.5 J/m	ARM
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 (0.13 in (3.18 mm))	100	100	IEC 61340-2-3
Volume Resistance (0.13 in (3.18 mm))	1.0E+2 ohms	1.0E+2 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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