

Technical Data Sheet

**Icorene 9909**

Polycarbonate
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 9909 is a polycarbonate powder that has been specifically developed for rotational moulding.

This grade exhibits an excellent balance of transparency, stiffness and toughness.

ICORENE® 9909 is UV stabilised and is suitable for applications requiring high temperature resistance.

Moreover, this grade is UL94 V2 flame retardant (Schulman R&D test).

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Flame Retardant • Good Stiffness	• Good Toughness • High Clarity	• High Heat Resistance • UV Resistant
Uses	• Lighting Fixtures		
Appearance	• Clear/Transparent	• Natural Color	• Unspecified Color
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	19 g/10 min	19 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	9430 psi	65.0 MPa	ISO 527-2
Flexural Modulus	341000 psi	2350 MPa	ISO 178
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	284 °F	140 °C	ISO 75-2
264 psi (1.8 MPa), Unannealed	262 °F	128 °C	ISO 75-2/A
Vicat Softening Temperature	298 °F	148 °C	ISO 306/B50
Thermal Conductivity (73°F (23°C))	1.4 Btu·in/hr/ft ² /°F	0.20 W/m/K	ISO 8302
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	V-2	V-2	Internal Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance (118.1 mil (3000 µm))	89.0 %	89.0 %	ISO 13468

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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