

ICORENE® 1315

High Density Polyethylene
Rotomolding

Product Description

ICORENE® 1315 is a high performance hexene high density polyethylene specifically developed for use in rotational moulding.

This grade has been designed for applications requiring good stiffness and toughness and can be used in many different rotomoulding applications.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Impact Resistance • Good Stiffness	• Good Toughness • Hexene Comonomer	• High ESCR (Stress Crack Resist.) • UV Resistant
Uses	• Fuel Tanks • Industrial Tanks	• Septic Tanks • Tanks	
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.940 g/cm³	0.940 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 100% Igepal	> 1000 hr	> 1000 hr	ASTM D1693
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	3190 psi	22.0 MPa	ASTM D638
Tensile Elongation (Break)	> 1000 %	> 1000 %	ASTM D638
Flexural Modulus (73°F (23°C))	114000 psi	785 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	> 4.50 in·lb/mil	> 200 J/cm	Internal Method
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	59	59	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	151 °F	66.0 °C	ISO 75-2/B
Vicat Softening Temperature	246 °F	119 °C	ISO 306/A

Notes

¹ Based on ISO 6603

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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