

ICORENE® 3560

Linear Low Density Polyethylene
Rotomolding

Product Description

ICORENE® 3560 is a linear low density polyethylene specifically developed for rotational moulding.

This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow and stiffness.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• UV Stabilizer		
Features	• Good Flow • Good Processability	• Good Stiffness • Good Toughness	• UV Resistant
Uses	• Containers	• General Purpose	• Tanks
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm ³	0.935 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
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 100% Igepal, F50	> 150 hr	> 150 hr	ASTM D1693B
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2470 psi	17.0 MPa	ASTM D638
Flexural Modulus	79800 psi	550 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	3.82 in·lb/mil	170 J/cm	Internal Method
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	55	55	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	126 °F	52.0 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	96.8 °F	36.0 °C	
Peak Melting Temperature	257 °F	125 °C	ASTM D3418

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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