

ICORENE[®] 3933

Linear Medium Density Polyethylene
Rotomolding

General			
Material Status	• Commercial: Active		
Availability	• Latin America		
Additive	• UV Stabilizer		
Features	• Copolymer • Food Contact Acceptable • Good Processability	• Good Stiffness • Hexene Comonomer • High ESCR (Stress Crack Resist.)	• UV Resistant
Agency Ratings	• FDA 21 CFR 177.1520		
Appearance	• Natural Color		
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)	3.3 g/10 min	3.3 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693A
10% Igepal	145 hr	145 hr	
100% Igepal	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	2970 psi	20.5 MPa	ASTM D638
Tensile Elongation ¹ (Break)	> 1000 %	> 1000 %	ASTM D638
Flexural Modulus ²	110000 psi	760 MPa	ASTM D790
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	140 °F	60.0 °C	
264 psi (1.8 MPa), Unannealed	106 °F	41.0 °C	
Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Accelerated Aging	11.0 month	11.0 month	ASTM G26

Notes

¹ 2.0 in/min (50 mm/min)

² 0.051 in/min (1.3 mm/min)

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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