

ICORENE® 3542

Polyethylene Copolymer
Rotomolding

General			
Material Status	• Commercial: Active		
Availability	• Latin America		
Features	• Butene Comonomer • Copolymer	• Food Contact Acceptable • Good Impact Resistance	• Good Processability
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	0.935 g/cm ³	0.935 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2 g/10 min	4.2 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
F50	400 hr	400 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	2470 psi	17.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	> 1000 %	> 1000 %	ASTM D638
Flexural Modulus ²	65300 psi	450 MPa	ASTM D790
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	239 °F	115 °C	ASTM D1525
Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Accelerated Aging	5.5 month	5.5 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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