

Technical Data Sheet

Icorene 3542

Polyethylene Copolymer
LyondellBasell Industries
Rotomolding

General			
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.