

Technical Data Sheet

Icorene 3542

Polyethylene Copolymer
LyondellBasell Industries
Rotomolding

General			
Features	<ul style="list-style-type: none"> Butene Comonomer Copolymer 	<ul style="list-style-type: none"> Food Contact Acceptable Good Impact Resistance 	<ul style="list-style-type: none"> Good Processability
Agency Ratings	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 		
Appearance	<ul style="list-style-type: none"> Natural Color 		
Forms	<ul style="list-style-type: none"> Powder 		
Processing Method	<ul style="list-style-type: none"> 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.