

Icorene 3570

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 3570 is a linear low density polyethylene for rotational molding applications such as high end coolers, toys, playgrounds, tanks, etc. The grade is UV stabilized and suitable for applications requiring good stiffness and processability. Very good mold surface finish.

General

Additive	• UV Stabilizer		
Features	• Good Toughness	• UV Resistant	
Uses	• General Purpose	• Outdoor Applications	• Sporting Goods
Appearance	• Colors Available		
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)	6.8 g/10 min	6.8 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			
10% Igepal, F50	50.0 hr	50.0 hr	ASTM D1693
100% Igepal, F50	> 1000 hr	> 1000 hr	ASTM D1693A
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	2650 psi	18.3 MPa	ASTM D638
Flexural Modulus - 1% Secant ²	101000 psi	696 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength			ARM
-40°F (-40°C), 0.125 In (3.18 Mm), Rotational Molded	50 ft·lb	68 J	
-40°F (-40°C), 0.250 In (6.35 Mm), Rotational Molded	190 ft·lb	258 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	135 °F	57.2 °C	
264 Psi (1.8 Mpa), Unannealed, 0.00492 In (0.125 Mm), Rotational Molded	101 °F	38.6 °C	

Additional Information

Test data based on natural, unpigmented resin.

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.

