

Polyaxis LL 3568

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

PolyAxis LL 3568 is a linear low density polyethylene intended for the rotational molding industry. Offers excellent ESCR and toughness.

General

Features	- Good ESCR (Stress Crack Resist.) - Good Toughness	- Hexene Comonomer - UV Resistant
Uses	- Displays - General Purpose	- Outdoor Applications - Toys
Appearance	Colors Available	
Forms	Powder	
Processing Method	Rotational Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.936	0.934 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)			ASTM D1693
10% Igepal, Compression Molded, F50	50.0 hr	50.0 hr	
100% Igepal, Compression Molded, F50	> 1000 hr	> 1000 hr	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield, Rotational Molded)	2300 psi	15.9 MPa	ASTM D638
Tensile Elongation ² (Yield)	10 %	10 %	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	83000 psi	572 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	58 ft·lb	79 J	
-40°F (-40°C), 0.250 In (6.35 Mm), Rotational Molded	> 148 ft·lb	> 200 J	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	126 °F	52.2 °C	
264 Psi (1.8 Mpa), Unannealed	97.0 °F	36.1 °C	
Peak Melting Temperature	259 °F	126 °C	ASTM D3418

Notes

¹ 2.0 in/min (50 mm/min)

² 2.0 in/min (51 mm/min)

Notes

These are typical property values not to be construed as specification limits.

