

Polyaxis CP 735

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

PolyAxis CP 735 is a linear low density polyethylene intended for the rotational molding industry. Offers excellent ESCR and toughness. Good general purpose material and UV resistant.

General

Features	• Good ESCR (Stress Crack Resist.) • Good Toughness • UV Resistant
Uses	• General Purpose • Outdoor Applications
Appearance	• Black • Tan • White
Forms	• Powder
Processing Method	• Rotational Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.935	0.933 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	6.7 g/10 min	6.7 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal, 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)	2610 psi	18.0 MPa	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	100000 psi	690 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	> 175 ft·lb	> 237 J	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	136 °F	58.0 °C	
264 Psi (1.8 Mpa), Unannealed	102 °F	38.9 °C	

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Notes

¹ 2.0 in/min (50 mm/min)

Notes

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

