

Polyaxis CP 735-35G Black

LyondellBasell Industries - Linear Low Density Polyethylene

General Information

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	<ul style="list-style-type: none"> • Good ESCR (Stress Crack Resist.) 	<ul style="list-style-type: none"> • Good Toughness 	<ul style="list-style-type: none"> • UV Resistant
Uses	<ul style="list-style-type: none"> • General Purpose 	<ul style="list-style-type: none"> • Outdoor Applications 	
Appearance	<ul style="list-style-type: none"> • Black 	<ul style="list-style-type: none"> • Tan 	<ul style="list-style-type: none"> • White
Forms	<ul style="list-style-type: none"> • Powder 		
Processing Method	<ul style="list-style-type: none"> • Rotational Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal, F50	50.0	hr	
100% Igepal, Compression Molded, F50	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Rotational Molded)	2610	psi	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	100000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°F, 0.125 in, Rotational Molded	> 50	ft·lb	
-40°F, 0.250 in, Rotational Molded	> 175	ft·lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	136	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	102	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min