

# Polyaxis CP 735

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

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm <sup>3</sup>	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 <sup>2</sup> (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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min