Technical Data Sheet

Polyaxis CP 735

Linear Low Density Polyethylene

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.

Regulatory Status

For regulatory compliance information, see *Polyaxis* CP 735 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Processing Method	Rotomolding
Attribute	Good ESCR (Environmental Stress Cracking Resistance); Good Toughness; UV Resistant
Forms	Powder
Appearance	Black; Tan; White
Application	General Purpose; Outdoor Applications

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	6.7	g/10 min	ASTM D1238
Density - Specific Gravity	0.933	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (50 mm/min, Rotational Molded)	18.0	MPa	ASTM D638
Flexural Modulus, (Rotational Molded, 1% Secant)	690	MPa	ASTM D790
Environmental Stress Crack Resistance			
(Compression Molded, F50, 100% Igepal)	>1000	hr	ASTM D1693
(F50, 10% Igepal)	50.0	hr	ASTM D1693
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	>68	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>237	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	38.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	58	°C	ASTM D648
UL Information			
Flame Rating, (UL 94)	HB		UL 94

Manufacturer website: https://www.lyondellbasell.com/en/

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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