Technical Data Sheet

Polyaxis CP 812-8372G PDS YELLOWYEW

Linear Low Density Polyethylene

Product Description

Polyaxis CP 812 is a general purpose linear low density polyethylene compund offering quick cycles and part to part consistancy. Available as pellet or powder.

Regulatory Status

For regulatory compliance information, see *Polyaxis* CP 812-8372G PDS YELLOWYEW Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Processing Method	Rotomolding
Attribute	Fast Molding Cycle
Forms	Pellets; Powder
Appearance	Colors Available
Additive	Long Term UV-8 Stabilizer
Application	General Purpose

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	5.0 to 7.0	g/10 min	ASTM D1238
Density	0.932 to 0.939	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (51 mm/min, Rotational Molded)	15.5	MPa	ASTM D638
Flexural Modulus, (Rotational Molded, 1% Secant)	586	MPa	ASTM D790
Environmental Stress Crack Resistance			
(Compression Molded, F50, 100% Igepal)	>500	hr	ASTM D1693
(Compression Molded, F50, 10% Igepal)	>25.0	hr	ASTM D1693
Tensile Elongation at Break, (51 mm/min, Rotational Molded)	500	%	ASTM D638
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	76	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	197	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (0.125 mm, Rotational Molded)	36.0	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (0.125 mm, Rotational Molded)	54.0	°C	ASTM D648
UL Information			
Flame Rating, (1.5 mm)	HB		UL 94
UL File Number, (USA)	E 51193		

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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