

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 compound offering quick cycles and part to part consistency. Available as pellet or powder.

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/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (51 mm/min, Rotational Molded)	15.5	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Compression Molded, F50, 100% Igepal)	>500	hr	ASTM D1693
(Compression Molded, F50, 10% Igepal)	>25.0	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	586	MPa	ASTM D790
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		