

Technical Data Sheet

Polyaxis CP 813-31G BLACK

Linear Low Density Polyethylene

Product Description

Polyaxis CP 813-31 is a black 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	Black
Additive	Long Term UV-8 Stabilizer
Application	General Purpose; Outdoor Applications

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.5 to 6.5	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)	15.9	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Compression Molded, F50, 100% Igepal)	>500	hr	ASTM D1693
(F50, 10% Igepal)	>25.0	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	579	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min, Rotational Molded)	400	%	ASTM D638
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	61	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	237	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (Rotational Molded)	40.0	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded)	51.1	°C	ASTM D648