Technical Data Sheet

Polyaxis LL 3568-4A559G TERCOT ORE

Linear Low Density Polyethylene

Product Description

Polyaxis LL 8556 is a linear low density polyethylene intended for the rotational molding industry. Offers excellent ESCR and toughness.

Processing Method	Rotomolding
Attribute	Good ESCR (Environmental Stress Cracking Resistance); Good Toughness; Hexene Comonomer; UV Resistant
Forms	Powder
Appearance	Colors Available
Application	General Purpose; Outdoor Applications; Toys

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	6.8	g/10 min	ASTM D1238
Density - Specific Gravity	0.936	g/cm³	ASTM D1505
Mechanical			
Tensile Elongation at Yield, (50 mm/min)	10	%	ASTM D638
Tensile Strength at Yield, (50 mm/min, Rotational Molded)	16.0	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Compression Molded, F50, 100% Igepal)	>1000	hr	ASTM D1693
(Compression Molded, F50, 10% Igepal)	50.0	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	570	MPa	ASTM D790
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	80	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>200	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	36	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	52	°C	ASTM D648
Peak Melting Temperature	126	°C	ASTM D3418