

Technical Data Sheet

Icorene 3568-3446G Black 6

Linear Low Density Polyethylene

Product Description

Icorene 3568 is a linear low density polyethylene for rotational molding applications. The grade is UV stabilized and suitable for applications requiring good stiffness and processability.

Processing Method	Rotomolding
Attribute	Good Toughness; UV Resistant
Forms	Powder
Appearance	Natural Color
Additive	UV Stabilizer
Application	General Purpose; Outdoor Applications

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	6.0 to 7.0	g/10 min	ASTM D1238
Density	0.934 to 0.937	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (50 mm/min)	17.9	MPa	ASTM D638
Environmental Stress Crack Resistance			
(Condition A, F50, 100% Igepal)	>1000	hr	ASTM D1693
(F50, 10% Igepal)	50.0	hr	ASTM D1693
Flexural Modulus, (1.3 mm/min, 1% Secant)	724	MPa	ASTM D790
Impact			
Impact Strength			
(-40 °C, 3.18 mm, Rotational Molded)	75	J	ARM
(-40 °C, 6.35 mm, Rotational Molded)	>258	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (0.125 mm, Rotational Molded)	38.3	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	56.7	°C	ASTM D648