

Technical Data Sheet

Icorene 3546 NAT0000

Linear Low Density Polyethylene

Product Description

Icorene 3546 Linear Low Density polyethylene is a Hexene copolymer, specifically developed for rotational moulding. This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow and stiffness.

Processing Method	Rotomolding
Attribute	Good Processability; Good Toughness; High Stiffness; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Containers; General Purpose; Tanks

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.1	g/10 min	ASTM D1238
Density	0.935	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield	14.0	MPa	ISO 527
Tensile Strength at Break	17.0	MPa	ISO 527
Environmental Stress Crack Resistance, (Compression Molded, 100% Igepal, 50 °C, 1.90 mm)	>1000	hr	ASTM D1693
Flexural Modulus	450	MPa	ISO 178
Tensile Elongation at Break	650	%	ASTM D638
Thermal			
Vicat Softening Temperature, (A (10N))	112	°C	ISO 306
Melting Temperature	121	°C	DSC