Technical Data Sheet

Icorene 3590 BUE 5113

Linear Low Density Polyethylene

Product Description

Icorene 3590 is a linear low density polyethylene specifically developed for rotational moulding.This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness, easy flow and stiffness.

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	9.0	g/10 min	ASTM D1238
Density	0.935	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield	17.0	MPa	ISO 527
Tensile Strength at Break	16.0	MPa	ISO 527
Environmental Stress Crack Resistance, (Condition B, F50, 100% Igepal, 50 °C)	>150	hr	ASTM D1693
Flexural Modulus	550	MPa	ISO 178
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	160	J/cm	ASTM D4226
Hardness			
Durometer Hardness, (Shore D)	53		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N))	113	°C	ISO 306
Melting Temperature	126	°C	DSC