Technical Data Sheet

Icorene 3545 BUE 5502

Linear Low Density Polyethylene

Product Description

Icorene 3545 is a linear low density polyethylene 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 Flow; 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)	4.5	g/10 min	ASTM D1238
Density	0.935	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield	18.0	MPa	ISO 527
Tensile Strength at Break	21.0	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)	175	J/cm	ASTM D4226
Hardness			
Durometer Hardness, (Shore D)	54		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N))	114	°C	ISO 306
Melting Temperature	126	°C	DSC