

Technical Data Sheet

Icorene 1761 BEI 2109

Polyethylene, Linear Low Density, Metallocene

Product Description

Icorene 1761 is a metallocene linear low density polyethylene for rotational moulding applications. This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow, high impact, and surface gloss.

Processing Method	Rotomolding
Attribute	Good Toughness; High Flow; High Gloss; High Impact Resistance; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	General Purpose; Molds/Dies/Tools

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	6.0	g/10 min	ASTM D1238
Density	0.935	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield	18.0	MPa	ISO 527-2
Tensile Strength at Break	11.0	MPa	ISO 527-2
Environmental Stress Crack Resistance			
(10% Igepal)	>300	hr	ASTM D1693
(100% Igepal)	>1000	hr	ASTM D1693
Flexural Modulus	700	MPa	ISO 178
Tensile Elongation at Break	>800	%	ASTM D638
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	190	J/cm	ASTM D4226
Thermal			
Vicat Softening Temperature	121	°C	ISO 306
Melting Temperature	123	°C	ISO 11357