

Technical Data Sheet

Icorene 3855 GRN 6181

Polyethylene, Medium Density

Product Description

Icorene 3855 is a hexene medium density polyethylene with outstanding processability, 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 Stiffness; Good Toughness; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Containers; General Purpose

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	5.0	g/10 min	ASTM D1238
Density	0.938	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Yield	19.0	MPa	ISO 527
Flexural Modulus	750	MPa	ISO 178
Tensile Elongation at Break	>700	%	ASTM D638
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	190	J/cm	ASTM D4226
Hardness			
Durometer Hardness, (Shore D)	55		ASTM D2240
Thermal			
Vicat Softening Temperature	116	°C	ISO 306
Melting Temperature	127	°C	DSC