

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.

Regulatory Status

For regulatory compliance information, see *Icorene* 3855 GRN 6181 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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