

Technical Data Sheet

Icorene 1761 RED 4312



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.

Regulatory Status

For regulatory compliance information, see *Icorene* 1761 RED 4312 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
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

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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