

Technical Data Sheet

Icorene 1460 GRY 7907



Polyethylene, Medium Density

Product Description

Icorene 1460 GRY 7907 is a hexene medium density polyethylene compound grey colour specifically developed for use in rotational moulding. This grade is designed for use in agriculture and chemical storage containers, technical parts and automotive parts. Also this grade is resistant against the harmful effect of biodiesel fuel. *Icorene* 1460 GRY 7907 has good overall mouldability, extremely high ESCR and impact strength (especially at low temperatures).

Regulatory Status

For regulatory compliance information, see *Icorene* 1460 GRY 7907 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
Processing Method	Rotomolding
Attribute	Good Moldability; Good Toughness; High ESCR (Environmental Stress Cracking Resistance); Low Temperature Impact Resistance; UV Resistant
Forms	Powder
Appearance	Grey
Additive	Antioxidant; UV Stabilizer
Application	Automotive Exterior Parts; Industrial Containers

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	7.5	g/10 min	ISO 1133
Density	0.936	g/cm ³	ISO 1183
Mechanical			
Tensile Strength at Yield	17.0	MPa	ISO 527-1
Environmental Stress Crack Resistance, (Condition B, F50, 10% Igepal, 50 °C)	>1000	hr	ASTM D1693
Tensile Strain at Break	>450	%	ISO 527-1
Tensile Strain at Yield	10	%	ISO 527-1
Tensile Modulus	700	MPa	ISO 527
Impact			
Impact Strength, (-40 °C, 3.00 mm, Rotational Molded)	>75	J	ARM
Tensile Impact Strength			
(Method A, -30 °C)	104	kJ/m ²	ISO 8256
(Method A, 23 °C)	213	kJ/m ²	ISO 8256
Hardness			
Shore Hardness, (Shore D, Rotational Molded)	56		ISO 868
Thermal			
Vicat Softening Temperature, (A (10N), 50 °C/h)	113	°C	ISO 306

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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