Technical Data Sheet

Icorene 1380 GRY 7412

High Density Polyethylene

Product Description

Icorene 1380 is a hexene high density polyethylene specifically developed for use in rotational moulding.This grade has been designed for applications requiring good stiffness and toughness and can be used in many different rotomoulding, including food contact applications.*Icorene* 1380 Black 9001 is TUV ECE R34 approved, protocolnr: 185XS0206-00.

Regulatory Status

For regulatory compliance information, see *Icorene* 1380 GRY 7412 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Europe
Processing Method	Rotomolding
Attribute	Good Impact Resistance; Good Stiffness; Good Toughness; Hexene Comonomer; High ESCR (Environmental Stress Cracking Resistance); UV Resistant
Forms	Granules; Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Fuel Tanks; Septic Tanks; Tanks; Tanks, Industrial

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4.5	g/10 min	ASTM D1238
Density	0.94	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (50 mm/min, 23 °C)	20.0	MPa	ISO 527-1
Flexural Modulus, (23 °C)	800	MPa	ASTM D790
Environmental Stress Crack Resistance, (100% Igepal, 50 °C)	>1000	hr	ASTM D1693
Tensile Elongation at Break, (50 mm/min, 23 °C)	>1000	%	ISO 527-1
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	>200	J/cm	ASTM D4226
Thermal			
Melting Temperature	127	°C	ISO 11357-3

Manufacturer website: https://www.lyondellbasell.com/en/

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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