Technical Data Sheet

Icorene 1339 GRN 6111

High Density Polyethylene

Product Description

Icorene 1339 is a hexene high density polyethylene specifically developed for use in rotational moulding.This grade has been designed for applications requiring higher stiffness and toughness. *Icorene* 1339 is also available as a Black powder.

Regulatory Status

For regulatory compliance information, see *Icorene* 1339 GRN 6111 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 Rigidity; UV Resistant
Forms	Powder
Appearance	Black; Colors Available; Natural Color
Additive	UV Stabilizer
Application	Tanks

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	3.0	g/10 min	ASTM D1238
Density	0.943	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield, (23 °C, Type I)	21.0	MPa	ISO 527
Flexural Modulus, (23 °C)	900	MPa	ISO 178
Environmental Stress Crack Resistance			
(Condition B, Rotational Molded, 10% Igepal CO-630, 50 °C)	>400	hr	ASTM D1693
(Condition B, F50, 100% Igepal CO-630, 50 °C)	1000	hr	ASTM D1693
Tensile Elongation at Break	>1000	%	ASTM D638
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	>200	J/cm	ASTM D4226
Hardness			
Durometer Hardness, (Shore D)	63		ASTM D2240
Thermal			
Vicat Softening Temperature, (A (10N))	119	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	75	°C	ISO 75-2/B
Melting Temperature	128	°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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