Technical Data Sheet

Icorene 1339 G BLK 9001

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.

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
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
Flexural Modulus, (23 °C)	900	MPa	ISO 178
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

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/.

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.