

## Technical Data Sheet

### *Icorene* 1339 GRY 7407



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.

<b>Processing Method</b>	Rotomolding
<b>Attribute</b>	Good Impact Resistance; Good Stiffness; Good Toughness; Hexene Comonomer; High Rigidity; UV Resistant
<b>Forms</b>	Powder
<b>Appearance</b>	Black; Colors Available; Natural Color
<b>Additive</b>	UV Stabilizer
<b>Application</b>	Tanks

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	3.0	g/10 min	ASTM D1238
Density	0.943	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
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
<b>Impact</b>			
Drop Impact Resistance, (-20 °C, Internal Method)	>200	J/cm	ASTM D4226
<b>Hardness</b>			
Durometer Hardness, (Shore D)	63		ASTM D2240
<b>Thermal</b>			
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/>.

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