

## Technical Data Sheet

### *Icorene* 1050 BLK 9001

High Density Polyethylene

#### Product Description

*Icorene* 1050 is a high density polyethylene specifically developed for rotational moulding. This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness and stiffness.

<b>Processing Method</b>	Rotomolding
<b>Attribute</b>	Good Processability; Good Stiffness/Impact Balance; High Impact Resistance; UV Resistant
<b>Forms</b>	Powder
<b>Appearance</b>	Natural Color; Unspecified Color
<b>Additive</b>	UV Stabilizer
<b>Application</b>	Tanks; Water Sports Equipment

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	3.8	g/10 min	ASTM D1238
Density	0.947	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Tensile Strength at Yield	25	MPa	ASTM D638
Flexural Modulus	965	MPa	ASTM D790
Tensile Elongation at Break	610	%	ASTM D638
<b>Impact</b>			
Drop Impact Resistance, (-20 °C, Internal Method)	170	J/cm	ASTM D4226
<b>Hardness</b>			
Durometer Hardness, (Shore D)	65		ASTM D2240
<b>Thermal</b>			
Vicat Softening Temperature, (A (10N))	122	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	72	°C	ISO 75-2/B
Melting Temperature	130	°C	DSC

## 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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