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 propertiessuch as toughness and stiffness.

Regulatory Status

For regulatory compliance information, see *Icorene* 1050 BLK 9001 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Europe
Processing Method	Rotomolding
Attribute	Good Processability; Good Stiffness/Impact Balance; High Impact Resistance; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Tanks; Water Sports Equipment

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	3.8	g/10 min	ASTM D1238
Density	0.947	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Yield	25	MPa	ASTM D638
Flexural Modulus	965	MPa	ASTM D790
Tensile Elongation at Break	610	%	ASTM D638
Impact			
Drop Impact Resistance, (-20 °C, Internal Method)	170	J/cm	ASTM D4226
Hardness			
Durometer Hardness, (Shore D)	65		ASTM D2240
Thermal			
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

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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