Technical Data Sheet



Icorene 5045 SL UV+ BLK 9001



High Density Polyethylene

Product Description

Icorene 5045 SL is a superlinear high density polyethylene specifically developed for use in rotational moulding. It is designed for high rigidity parts and present a good gloss finish with moulds with glossy, chrome, or nickel finishes. This grade is particularly suitable for the production of multilayer boat. It has very high stiffness, good toughness and scratch resistance combined with good processability.

Processing Method	Rotomolding
Attribute	Good Processability; High Scratch Resistance; Ultra High Stiffness; Ultra High Toughness; UV Resistant
Forms	Powder
Appearance	Natural Color; Unspecified Color
Additive	UV Stabilizer
Application	Water Sports Equipment

Nominal		
Value	Units	Test Method
5.9	g/10 min	ASTM D1238
0.95	g/cm³	ASTM D1505
19	%	ISO 527-1
26.0	MPa	ISO 527-1
8.00	MPa	ISO 527-1
1130	MPa	ASTM D790
130	%	ISO 527-1
200	J/cm	ASTM D4226
220	J/cm	ASTM D4226
63		ASTM D2240
	Value 5.9 0.95 19 26.0 8.00 1130 130 200 220	Value Units 5.9 g/10 min 0.95 g/cm³ 19 % 26.0 MPa 8.00 MPa 1130 MPa 130 % 200 J/cm 220 J/cm

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/.

© LyondellBasell Industries Holdings, B.V. 2018

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.