

Technical Data Sheet

**Icorene 5760**

High Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 5760 is a high density polyethylene specifically developed for rotational moulding.

This grade is particularly suitable for use in kayaks and boat applications. It has very high stiffness and scratch resistance combined with good processability.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Processability	• Ultra High Stiffness	
	• High Scratch Resistance	• UV Resistant	
Uses	• Water Sports Equipment		
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.949 g/cm ³	0.949 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 10% Igepal	45.0 hr	45.0 hr	ASTM D1693
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3340 psi	23.0 MPa	ASTM D638
Flexural Modulus	148000 psi	1020 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	5.7 ft·lb/in ²	12 kJ/m ²	ISO 179
Drop Impact Resistance ¹ (-4°F (-20°C))	4.61 in·lb/mil	205 J/cm	Internal Method

Notes

¹ Based on ISO 6603

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2024

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.

Technical Data Sheet**Icorene 5760**

High Density Polyethylene
LyondellBasell Industries
Rotomolding

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.