

Technical Data Sheet

**Icorene 5775**

High Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 5775 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.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Processability • High Scratch Resistance	• Ultra High Stiffness • 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	0.943 g/cm ³	0.943 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3050 psi	21.0 MPa	ASTM D638
Tensile Elongation (Break)	800 %	800 %	ASTM D638
Flexural Modulus	131000 psi	900 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	4.05 in·lb/mil	180 J/cm	Internal Method
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	63	63	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature	262 °F	128 °C	ASTM D2117

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/>.

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