

Technical Data Sheet

**Icorene 5704**

Medium Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 5704 is a metallocene medium density polyethylene specifically developed for rotational moulding.

This grade is a suitable grade for use in kayaks and boats applications. It has a good balance of properties such as toughness easy flow and stiffness.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good Stiffness	• High Flow	
	• Good Toughness	• 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	0.938 g/cm ³	0.938 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2900 psi	20.0 MPa	ASTM D638
Flexural Modulus	101000 psi	695 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	8.3 ft·lb/in ²	17 kJ/m ²	ISO 179
Drop Impact Resistance ¹ (-4°F (-20°C))	4.50 in·lb/mil	200 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/>.

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Page: 1 of 1
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