

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

Additive	• UV Stabilizer		
Features	• Good Stiffness • Good Toughness	• High Flow • 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/cm³	0.938 g/cm³	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/in²	17 kJ/m²	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.