

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

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	0.943 g/cm³	0.943 g/cm³	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.