

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

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	0.949 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.