

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 | • 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.

