

Technical Data Sheet

**Icorene 1761**

Metallocene Linear Low Density Polyethylene

LyondellBasell Industries

Rotomolding

Product Description

ICORENE® 1761 is a metallocene linear low density polyethylene for rotational moulding applications.

This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow, high impact, and surface gloss.

General			
Additive	• UV Stabilizer		
Features	• Good Toughness • High Flow	• High Gloss • High Impact Resistance	• UV Resistant
Uses	• General Purpose	• Molds/Dies/Tools	
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm ³	0.935 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	6.0 g/10 min	6.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal	> 300 hr	> 300 hr	
100% Igepal	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ISO 527-2
Yield	2610 psi	18.0 MPa	
Break	1600 psi	11.0 MPa	
Tensile Elongation (Break)	> 800 %	> 800 %	ASTM D638
Flexural Modulus	102000 psi	700 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	4.27 in·lb/mil	190 J/cm	Internal Method
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	250 °F	121 °C	ISO 306
Melting Temperature	253 °F	123 °C	ISO 11357

Notes

¹ Based on ISO 6603

Notes

These are typical property values not to be construed as specification limits.