

Icorene 1869

Linear Low Density Polyethylene

LyondellBasell Industries

Rotomolding

Product Description

ICORENE® 1869 is a self adhesive linear low density polyethylene powder specifically developed for rotational lining.

This grade has been designed using a high performance additive package formulated to provide good bonding to metal surfaces during processing. ICORENE® 1869 is particularly suitable for bonding to steel surfaces.

We recommend the use of a specific metal preparation process to ensure consistent and effective metal-to-polymer bonding.

For processing advice please consult our process guide.

General

Additive	• Antioxidant	
Features	• Bondability	• Corrosion Resistant
Uses	• Adhesives	
Appearance	• Black	• Natural Color
Forms	• Powder	
Processing Method	• Rotational Molding	• Roto Lining

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (73°F (23°C))	0.927 g/cm ³	0.927 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	3.5 g/10 min	3.5 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 10% Antarox, Rotational Molded, F50	> 1000 hr	> 1000 hr	ASTM D1693B
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			ISO 527-2
Yield, 0.118 In (3.00 Mm), Rotational Molded	2180 psi	15.0 MPa	
Flexural Modulus			ISO 178
73°F (23°C), 0.118 In (3.00 Mm)	67400 psi	465 MPa	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D)	52	52	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature	250 °F	121 °C	DSC

Notes

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

