

Icorene 1869 NAT 0000 US

LyondellBasell Industries - Linear Low Density Polyethylene

General Information

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

Properties ¹

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