

Technical Data Sheet

lcorene 1869 NAT 0000 US



Linear Low Density Polyethylene

Product Description

lcorene 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. *lcorene* 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.

Processing Method	Roto Lining; Rotomolding
Attribute	Bondability; Good Corrosion Resistance
Forms	Powder
Appearance	Black; Natural Color
Additive	Antioxidant
Application	Adhesives

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	3.5	g/10 min	ISO 1133
Density, (23 °C)	0.927	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (3.00 mm, Rotational Molded)	15.0	MPa	ISO 527-2
Environmental Stress Crack Resistance, (Condition B, Rotational Molded, F50, 10% Antarox, 50 °C)	>1000	hr	ASTM D1693
Flexural Modulus, (3.00 mm, 23 °C)	465	MPa	ISO 178
Hardness			
Shore Hardness, (Shore D)	52		ISO 868
Thermal			
Melting Temperature	121	°C	DSC