

Plaslube® PE 4000 LE

Ultra High Molecular Weight Polyethylene

Techmer Engineered Solutions

Message:

Plaslube® PE 4000 LE is an Ultra High Molecular Weight Polyethylene product. It can be processed by injection molding and is available in North America.

General Information			
Features	Low Extractables		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.941	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	2.2	%	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	66		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	32.4	MPa	ASTM D638
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	896	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.27		
vs. Steel - Static	0.19		
Wear Factor	120	10 ⁻⁸ mm ³ /N · m	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	93.3	°C	
1.8 MPa, Unannealed	54.4	°C	
CLTE - Flow	9.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Additional Information	Nominal Value	Unit	Test Method
Limiting Pressure Velocity			ASTM D3702
10 fpm	3000	psi · fpm	
100 fpm	5000	psi · fpm	

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Recommended distributors for this material

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