

Plaslube® PE 4000 AS

Ultra High Molecular Weight Polyethylene
Techmer Engineered Solutions

Message:
Injection Moldable, Permanent Antistat

General Information			
Features	Antistatic		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.969	g/cm ³	ASTM D792
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	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+9 to 1.0E+11	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149

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