

Plaslube® PE 5900

Ultra High Molecular Weight Polyethylene

Techmer Engineered Solutions

Message:

Plaslube® PE 5900 is an Ultra High Molecular Weight Polyethylene product. It can be processed by injection molding and is available in North America. Characteristics include:
Flame Rated
Lubricated

General Information			
Additive	Lubricant		
Features	Lubricated		
Appearance	Colors Available		
	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.968	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	1.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	3.0	%	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	25.5	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	483	MPa	ASTM D790
Flexural Strength	41.4	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.15		
vs. Steel - Static	0.080		
Wear Factor	32	10 ⁻⁸ mm ³ /N · m	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	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	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257

Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	

25001000 fpm

5000100 fpm

Limiting Pressure Velocity	300010 fpm	psi · fpm	
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NOTE	
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1.	Method A (Short-Time)
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