

Plaslube® TPX-POM-01060

Acetal (POM) Homopolymer
Techmer Engineered Solutions

Message:

Plaslube® TPX-POM-01060 is an Acetal (POM) Homopolymer product. It can be processed by injection molding and is available in North America. Characteristics include:
Homopolymer
Lubricated
Wear Resistant

General Information			
Additive	Lubricant		
Features	Good Wear Resistance		
	Homopolymer		
	Low Friction		
	Lubricated		
UL File Number	E157318		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.8	%	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	65.5	MPa	ASTM D638
Tensile Elongation (Yield)	30	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	88.3	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.20		
vs. Steel - Static	0.15		
Wear Factor	120	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	169	°C	

1.8 MPa, Unannealed	108	°C	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Injection	Nominal Value	Unit	
Drying Temperature	71.1	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	177 to 193	°C	
Middle Temperature	188 to 210	°C	
Front Temperature	182 to 199	°C	
Nozzle Temperature	177 to 204	°C	
Processing (Melt) Temp	193 to 216	°C	
Mold Temperature	82.2 to 121	°C	
Injection Rate	Moderate		
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	70 to 80	rpm	
NOTE			

1. Method A (Short-Time)

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