

Plaslube® POM HO TL20 BK

Acetal (POM) Homopolymer

Techmer Engineered Solutions

Message:

Plaslube® POM HO TL20 BK is an Acetal (POM) Homopolymer product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Homopolymer

Lubricated

General Information			
Additive	PTFE Lubricant		
Features	Homopolymer		
	Lubricated		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	48.3	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.12		
vs. Steel - Static	0.070		
Wear Factor	26	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	102	°C	
Melting Temperature	162	°C	
CLTE - Flow	9.9E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	HB		UL 94
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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