

Plaslube® POM CO TL20

Acetal (POM) Copolymer
Techmer Engineered Solutions

Message:

Plaslube® POM CO TL20 is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in North America. Features include:
flame retardant/rated flame
Copolymer
Wear-resistant
Lubrication

General Information			
Additive	PTFE lubricant		
Features	Low friction coefficient		
	Copolymer		
	Good wear resistance		
	Lubrication		
UL File Number	E157318		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm³	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)	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Flexural Strength	67.6	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.15		ASTM D1894
With steel-static	0.17		ASTM D1894
Wear Factor	28	10^-8 mm³/N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648

1.8 MPa, not annealed	98.9	°C	ASTM D648
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	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	1.0 - 2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	177 - 188	°C	
Middle Temperature	188 - 199	°C	
Front Temperature	182 - 193	°C	
Nozzle Temperature	177 - 188	°C	
Processing (Melt) Temp	188 - 204	°C	
Mold Temperature	76.7 - 93.3	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 - 0.689	MPa	
Injection instructions			
Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well ventedMoisture Content, as received: Product is packaged at 0.2% or less.Drying not normally required. Dry at 180°F for 1 to 2 hours if necessary.			
NOTE			

1. Method A (short time)

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