

Plaslube® POM CO TS20

Acetal (POM) Copolymer
Techmer Engineered Solutions

Message:

Plaslube®POM CO TS20 is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in North America. Features include:
Copolymer
Wear-resistant
Lubrication

General Information			
Additive	PTFE + Silicone Lubricant (20%)		
Features	Copolymer		
	Good wear resistance		
	Lubrication		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	41.4	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	67.6	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.11		ASTM D1894
With steel-static	0.060		ASTM D1894
Wear Factor	18	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	166	°C	ASTM D648
1.8 MPa, not annealed	98.9	°C	ASTM D648
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
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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