

# Plaslube® POM CO GF5 TL5

Acetal (POM) Copolymer  
Techmer Engineered Solutions

Message:

Plaslube® POM CO GF5 TL5 is an Acetal (POM) Copolymer product filled with 5.0% glass fiber. It can be processed by injection molding and is available in North America.  
Characteristics include:  
Flame Rated  
Copolymer  
Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Additive	PTFE Lubricant		
Features	Copolymer		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.4	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	63.4	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	2930	MPa	ASTM D790
Flexural Strength	91.7	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.21		
vs. Steel - Static	0.19		
Wear Factor	100	10 <sup>-8</sup> mm <sup>3</sup> /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	163	°C	
1.8 MPa, Unannealed	127	°C	
Melting Temperature	162	°C	

CLTE - Flow	6.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	71.1	°C	
Drying Time	1.0	hr	
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	
NOTE			

1. Method A (Short-Time)

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#### Recommended distributors for this material

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