

Plaslube® POM CO CF10 TL10 BK

Acetal (POM) Copolymer
Techmer Engineered Solutions

Message:

Plaslube® POM CO CF10 TL10 BK is an Acetal (POM) Copolymer product filled with 10% carbon fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Copolymer
Lubricated

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Copolymer		
	Lubricated		
UL File Number	E157318		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	75.8	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.20		
vs. Steel - Static	0.17		
Wear Factor	50	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	154	°C	ASTM D648
CLTE - Flow	4.7E-5	cm/cm/°C	ASTM D696
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

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