Plaslube® POM CO TL6

Techmer Polymer Modifiers - *Acetal (POM) Copolymer*

General Information

General		
Material Status	• Commercial: Active	
Availability	• North America	
Additive	• PTFE Lubricant: 6%	
Features	• Copolymer • Low Friction	• Lubricated • Wear Resistant
Appearance	• Colors Available	• Colors Available
Forms	• Pellets	
Processing Method	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.44		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.018	in/in	ASTM D955
Water Absorption (24 hr)	0.17	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	360000	psi	ASTM D638
Tensile Strength (Break)	7800	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	390000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.18		
vs. Steel - Static	0.12		
Wear Factor	55	10^-10 in³·min/ft·lb·hr	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	92		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	212	°F	ASTM D648
CLTE - Flow	5.0E-5	in/in/°F	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	450	V/mil	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	350 to 370	°F
Middle Temperature	370 to 390	°F
Front Temperature	360 to 380	°F
Nozzle Temperature	350 to 370	°F
Processing (Melt) Temp	370 to 400	°F

Mold Temperature	170 to 200 °F
Injection Rate	Moderate-Fast
Back Pressure	50.0 to 100 psi

Injection Notes

Screw Speed: Medium
Recommendations for Molding and Tool Conditions: Well vented
Moisture 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.

Notes

[1] Typical properties: these are not to be construed as specifications.