

**Plaslube® POM CO TS20 LE**

Techmer Polymer Modifiers - Acetal (POM) Copolymer

## General Information

**General**

Material Status	• Commercial: Active
Availability	• North America
Additive	• PTFE Lubricant: 20%      • Silicone Lubricant
Features	• Copolymer      • Low Friction      • Wear Resistant • Low Extractables      • Lubricated
UL File Number	• E157318
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.020	in/in	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	6000	psi	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Flexural Strength	9800	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.11		
vs. Steel - Static	0.060		
Wear Factor	9.0	10 <sup>-4</sup> -10 in <sup>3</sup> ·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 (R-Scale)	79		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	330	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	210	°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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

