

Plaslube® Actrn

Techmer Polymer Modifiers - Acetal (POM) Homopolymer

General Information

Product Description

This acetal (homopolymer) is lubricated with a binary polymer lubricant blend.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Lubricant		
Features	• Lubricated	• Self Lubricating	
Uses	• Bearings	• Bushings	
RoHS Compliance	• RoHS Compliant		
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)	0.025	in/in	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 73°F)	7500	psi	ASTM D638
Tensile Elongation (Break, 73°F)	10	%	ASTM D638
Flexural Modulus (73°F)	360000	psi	ASTM D790
Flexural Strength (Break, 73°F)	12000	psi	ASTM D790
Compressive Strength	10000	psi	ASTM D695
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.14		
vs. Steel - Static	0.10		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.80	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	200	°F	ASTM D648
CLTE - Flow	5.2E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Additional Information

 Thrust Washer Wear Factor, ASTM D3702, 2000 PV, ambient temp.: 40E-10in³min/ft-lb-hr

 Thrust Washer Wear Factor, ASTM D3702, 12000 PV, 300°F: 10E-10in³min/ft-lb-hr

 Journal Bearing Wear Factor, 5000 PV, ambient temp.: 35E-10in³min/ft-lb-hr

Coefficient of Friction, Static, Thrust washer, 40psi, ambient temp.: 0.10

Coefficient of Friction, Dynamic, Thrust washer, 40psi, 50 ft/min, ambient temp.: 0.14

Limiting PV, Thrust washer, 100 FPM, ambient temp.: 4E4e

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%



Rear Temperature	350 to 380 °F
Middle Temperature	370 to 410 °F
Front Temperature	360 to 390 °F
Nozzle Temperature	350 to 400 °F
Processing (Melt) Temp	380 to 420 °F
Mold Temperature	180 to 250 °F
Injection Rate	Moderate
Back Pressure	50.0 to 100 psi
Screw Speed	70 to 80 rpm

Notes

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

