

Plaslube® Actrn

Acetal (POM) Homopolymer
Techmer Engineered Solutions

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

General Information			
Additive	Lubricant		
Features	Lubrication		
	Self-lubricating		
Uses	Bushing		
	Bearing		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.5	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	51.7	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	10	%	ASTM D638
Flexural Modulus (23°C)	2480	MPa	ASTM D790
Flexural Strength (Break, 23°C)	82.7	MPa	ASTM D790
Compressive Strength	68.9	MPa	ASTM D695
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.14		ASTM D1894
With steel-static	0.10		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.3	°C	ASTM D648
CLTE - Flow	9.4E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

Thrust Washer Wear Factor, ASTM D3702, 2000 PV, ambient temp.: 40E-10in³min/ft-lb-hrThrust Washer Wear Factor, ASTM D3702, 12000 PV, 300°F: 10E-10in³min/ft-lb-hrJournal Bearing Wear Factor, 5000 PV, ambient temp.: 35E-10in³min/ft-lb-hrCoefficient of Friction, Static, Thrust washer, 40psi, ambient temp.: 0.10Coefficient of Friction, Dynamic, Thrust washer, 40psi, 50 ft/min, ambient temp.: 0.14Limiting PV, Thrust washer, 100 FPM, ambient temp.: 4E4e

Injection	Nominal Value	Unit
Drying Temperature	71.1	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	177 - 193	°C
Middle Temperature	188 - 210	°C
Front Temperature	182 - 199	°C
Nozzle Temperature	177 - 204	°C
Processing (Melt) Temp	193 - 216	°C
Mold Temperature	82.2 - 121	°C
Injection Rate	Moderate	
Back Pressure	0.345 - 0.689	MPa
Screw Speed	70 - 80	rpm

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