

Plaslube® AC-80/TF/20

Acetal (POM) Copolymer

Techmer Engineered Solutions

Message:

Plaslube® AC-80/TF/20 is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: engineering/industrial accessories.

Features include:

flame retardant/rated flame

ROHS certification

Copolymer

Lubrication

General Information			
UL YellowCard	E253782-484546	E253782-484547	
Additive	PTFE lubricant (20%)		
Features	Copolymer		
	Lubrication		
Uses	Gear		
	Bearing		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Water Absorption (24 hr)	0.23	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	41.4	MPa	ASTM D638
Flexural Modulus (23°C)	2140	MPa	ASTM D790
Flexural Strength (23°C)	64.1	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.15		ASTM D1894
With steel-static	0.070		ASTM D1894
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)	100	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

Coefficient of Friction, Static, Thrust washer, 40psi, ambient temp.: 0.07
Coefficient of Friction, Dynamic, Thrust washer, 40psi, 50 ft/min, ambient temp.: 0.15
Limiting PV, Thrust washer, 100 FPM, ambient temp.: 1.3E4

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	1.0 - 2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	177 - 188	°C
Middle Temperature	188 - 199	°C
Front Temperature	182 - 193	°C
Nozzle Temperature	177 - 188	°C
Processing (Melt) Temp	188 - 204	°C
Mold Temperature	76.7 - 93.3	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.345 - 0.689	MPa

Injection instructions

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.

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