

Plaslube® AC-80/SI/2

Acetal (POM) Homopolymer

Techmer Engineered Solutions

Message:

Plaslube® AC-80/SI/2 is a polyoxymethylene (POM) homopolymer 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.

Features include:

flame retardant/rated flame

ROHS certification

Homopolymer

Lubrication

General Information			
Additive	Silicone lubricant (2%)		
Features	Homopolymer		
	Lubrication		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	55.2	MPa	ASTM D638
Flexural Modulus (23°C)	2410	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	0.11		ASTM D1894
With steel-static	0.080		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			

Coefficient of Friction, Static, Thrust washer, 40psi, ambient temp.: 0.08
Coefficient of Friction, Dynamic, Thrust washer, 40psi, 50 ft/min, ambient temp.: 0.11
Limiting PV, Thrust washer, 100 FPM, ambient temperature: 8E3

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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

