

Plaslube® AC-81/TF/15

Techmer Polymer Modifiers - Acetal (POM) Homopolymer

Product Description

Acetal Homopolymer is the specific generic type.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• PTFE Lubricant: 15%
Features	• Lubricated
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow	0.022	in/in	ASTM D955
Water Absorption (24 hr)	0.23	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8200	psi	ASTM D638
Flexural Modulus	380000	psi	ASTM D790
Flexural Strength (Yield)	11700	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.16		
vs. Steel - Static	0.080		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	215	°F	ASTM D648

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

