

# Plaslube® POM CO UV BK

Acetal (POM) Copolymer

Techmer Engineered Solutions

## Message:

Plaslube® POM CO UV BK is a polyoxymethylene (POM) copolymer product. It can be processed by injection molding and is available in North America.

Features include:

flame retardant/rated flame

Copolymer

UV stability

General Information			
Additive	UV stabilizer		
Features	Copolymer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.8	%	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.7	MPa	ASTM D638
Tensile Elongation (Yield)	30	%	ASTM D638
Flexural Modulus	2610	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
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.

#### NOTE

1. Method A (short time)

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