

Plaslube® HO TL15

Acetal (POM) Homopolymer
Techmer Engineered Solutions

Message:

Plaslube® HO TL15 is an Acetal (POM) Homopolymer product. It can be processed by injection molding and is available in North America. Characteristics include:
Flame Rated
Homopolymer
Lubricated

General Information			
Additive	PTFE Lubricant		
Features	Homopolymer		
	Lubricated		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	49.6	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	102	°C	
Melting Temperature	162	°C	
CLTE - Flow	9.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.57 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	71.1	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	177 to 193	°C
Middle Temperature	188 to 210	°C
Front Temperature	182 to 199	°C
Nozzle Temperature	177 to 204	°C
Processing (Melt) Temp	193 to 216	°C
Mold Temperature	82.2 to 121	°C
Injection Rate	Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	70 to 80	rpm
NOTE		

1. Method A (Short-Time)

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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

