

Plaslube® PSU TL20

Polysulfone

Techmer Engineered Solutions

Message:

Plaslube® PSU TL20 is a Polysulfone (PSU) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Lubricated

General Information			
Additive	PTFE Lubricant		
Features	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	68		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	52.4	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.080		
vs. Steel - Static	0.11		
Wear Factor	79	10 ⁻⁸ mm ³ /N · m	ASTM D3702
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			ASTM D648
0.45 MPa, Unannealed	188	°C	
1.8 MPa, Unannealed	177	°C	
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm)	V-0	UL 94
NOTE		

1.	Method A (Short-Time)
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