

Plaslube® PA6 GF10 TL10

Polyamide 6

Techmer Engineered Solutions

Message:

Plaslube® PA6 GF10 TL10 is a Polyamide 6 (Nylon 6) product filled with 10% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Heat Stabilizer

Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE Lubricant		
Features	Heat Stabilized		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	75.8	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	3590	MPa	ASTM D790
Flexural Strength	103	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 (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+14	ohms · cm	ASTM D257
Dielectric Strength ¹	17	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	4.0	hr	
Rear Temperature	260 to 304	°C	
Middle Temperature	260 to 304	°C	
Front Temperature	260 to 304	°C	
Processing (Melt) Temp	243 to 271	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.00 to 0.345	MPa	
Screw Speed	30 to 60	rpm	
NOTE			

1. Method A (Short-Time)

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