

Plaslube® PA6/6 GF60 TL10

Polyamide 66

Techmer Engineered Solutions

Message:

Plaslube® PA6/6 GF60 TL10 is a polyamide 66 (nylon 66) product, which contains a 60% glass fiber reinforced material. It can be processed by injection molding and is available in North America. The main characteristics are: lubrication.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 60% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Lubrication		
UL File Number	E157318		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	248	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	19300	MPa	ASTM D790
Flexural Strength	365	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	210	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	257	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+9	ohms · cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Additional Information	Nominal Value		
TPCI #	8575101		
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	

Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.12	%
Rear Temperature	282 - 293	°C
Middle Temperature	288 - 299	°C
Front Temperature	277 - 288	°C
Nozzle Temperature	282 - 293	°C
Processing (Melt) Temp	282 - 304	°C
Mold Temperature	54.4 - 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. Recommended Max Moisture: 0.12% down to 0.08%

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

