

Plaslube® PA6/6 GF30 TL5 LE

Techmer Polymer Modifiers - Polyamide 66

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• PTFE Lubricant: 15%
Features	• Low Extractables • Low Friction • Lubricated • Wear Resistant
Agency Ratings	• FDA
Appearance	• Colors Available • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.49		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	21600	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.30E+6	psi	ASTM D790
Flexural Strength	32500	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.28		
vs. Steel - Static	0.22		
Wear Factor	18	10 ⁻⁴ -10 in ³ ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.4	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	498	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648
CLTE - Flow	1.5E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	500	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Limiting Pressure Velocity	• 17500.010 fpm • 20000.0100 fpm • 17500.01000 fpm	psi-ft/min	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%



Rear Temperature	540 to 560 °F
Middle Temperature	550 to 570 °F
Front Temperature	530 to 550 °F
Nozzle Temperature	520 to 580 °F
Processing (Melt) Temp	540 to 580 °F
Mold Temperature	175 to 220 °F
Injection Rate	Slow-Moderate
Back Pressure	0.00 to 50.0 psi

Injection Notes

Screw Speed: Slow
Recommendations for Molding and Tool Conditions: Well vented mold
Moisture Content, as received: Product is packaged at 0.2% or less.

Notes

¹ Typical properties: these are not to be construed as specifications.

