

# Plaslube® PA11 GF30 TL20 LE

Polyamide 11  
Techmer Engineered Solutions

Message:

Plaslube® PA11 GF30 TL20 LE is a Polyamide 11 (Nylon 11) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America. Typical application: Food Contact Applications.

Characteristics include:

- Heat Stabilizer
- Lubricated
- Wear Resistant

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE Lubricant		
Features	Good Wear Resistance		
	Heat Stabilized		
	Low Extractables		
	Low Friction		
	Lubricated		
Agency Ratings	FDA Unspecified Rating		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.15	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	124	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	6070	MPa	ASTM D790
Flexural Strength	179	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.23		
vs. Steel - Static	0.29		
Wear Factor	34	10 <sup>-8</sup> mm <sup>3</sup> /N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.18 mm)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	192	°C	
1.8 MPa, Unannealed	177	°C	
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	18	kV/mm	ASTM D149
NOTE			
1.	Method A (Short-Time)		

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