

# Plaslube® PA6/6 CF10 TL15 BK

Polyamide 66  
Techmer Engineered Solutions

Message:

Plaslube® PA6/6 CF10 TL15 BK is a polyamide 66 (nylon 66) product that contains carbon fiber reinforcement. It can be processed by injection molding and is available in North America.

Features include:

Wear-resistant  
Lubrication

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Good wear resistance		
	Lubrication		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	145	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6830	MPa	ASTM D790
Flexural Strength	199	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.13		ASTM D1894
With steel-static	0.12		ASTM D1894
Wear Factor	24	10 <sup>-8</sup> mm <sup>3</sup> /N · m	ASTM D3702
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			ASTM D648
0.45 MPa, not annealed	254	°C	ASTM D648
1.8 MPa, not annealed	252	°C	ASTM D648
Injection	Nominal Value	Unit	

Drying Temperature	82.2	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	282 - 293	°C
Middle Temperature	288 - 299	°C
Front Temperature	277 - 288	°C
Nozzle Temperature	271 - 304	°C
Processing (Melt) Temp	282 - 304	°C
Mold Temperature	79.4 - 104	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.00 - 0.345	MPa

#### Injection instructions

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

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#### Recommended distributors for this material

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