

# Plaslube® PEEK CF10 TL15 HF

Polyetheretherketone  
Techmer Engineered Solutions

Message:

Plaslube® PEEK CF10 TL15 HF is a Polyetheretherketone (PEEK) product filled with carbon fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated  
High Flow  
Lubricated

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE Lubricant		
Features	High Flow		
	Lubricated		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	179	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	262	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)	299	°C	ASTM D648
CLTE - Flow	1.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	249	°C	

Drying Time	2.0 to 4.0	hr
Rear Temperature	360 to 388	°C
Middle Temperature	360 to 388	°C
Front Temperature	360 to 388	°C
Processing (Melt) Temp	360 to 382	°C
Mold Temperature	177 to 218	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

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#### Recommended distributors for this material

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