Wednesday, May 13, 2026

Plaslube® PEI CF30 TL15

Techmer Polymer Modifiers - *Polyetherimide*

Units SI

Action	Legend (Open)

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Additive	• PTFE Lubricant
Features	• Lubricated
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.47	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	203	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.19		
vs. Steel - Static	0.20		
Wear Factor	71	10^-8 mm³/N·m	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	690	J/m	ASTM D4812
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	213	°C	ASTM D648
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
CLTE - Flow	1.6E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+7	ohms·cm	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	141	°C
Drying Time	3.0	hr
Rear Temperature	357 to 391	°C
Middle Temperature	357 to 391	°C
Front Temperature	357 to 391	°C
Processing (Melt) Temp	354 to 388	°C
Mold Temperature	135 to 163	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

Notes

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

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