InLube® PEEKCF15TF15

Product Description 15% CARBON FIBER REINFORCED, 15% PTFE LUBRICATED PEEK

Material Status Commercial: Active

Availability Africa & Middle East, Asia Pacific, Europe, Latin America, North America

Filler / Reinforcement Carbon Fiber, 15% Filler by Weight

Additive PTFE Lubricant: 15%

Features Chemical Resistant, Filled, Good Dimensional Stability, Good Mold Release, High Stiffness, High Strength, Low Friction, Lubricated, Wear Resistant

Uses Aerospace Applications, Connectors, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Industrial Applications, Industrial Parts, Metal Replacement, Military/Defense Applications, Oil/Gas Applications, Outdoor Applications, Semiconductor Applications

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.47	g/cm³	ASTM D792
Specific Volume	0.681	cm³/g	
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	262	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	270	J/m	ASTM D4812

Hardness	Nominal Value	Unit
Rockwell Hardness (R-Scale)	124	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	316	°C	
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit
Surface Resistivity	1.0E+3 to 1.0E+7	ohms

Properties provided are only typical values and Americhem assumes no liability for the customer's use of the information provided. The customer assumes all responsibility for testing determining this products suitability in the customer's specific end application.

Revision Date: 9/16/2024

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0	hr
Processing (Melt) Temp	349 to 393	°C
Mold Temperature	177 to 204	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.038 to 0.076	mm

Notes

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

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