InLube® PPSUCF10TF5SI2

Product Description InLube PPSUCF10TF5SI2 is a 10% carbon fiber reinforced PPSU with 5% PTFE and silicone. InLube PPSUCF10TF5SI2 offers high operating temperatures, good chemical compatibility, excellent hydrolysis resistance, good dimensional stability, and favorable mechanical properties.

Material Status Commercial: Active

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

Filler / Reinforcement Carbon Fiber, 10% Filler by Weight

Additive PTFE Lubricant: 5%, Silicone Lubricant: 2%

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	1.35	g/cm³	ASTM D792

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4830	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength (Yield)	152	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69 to 80	J/m	ASTM D256

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	343 to 388	°C
Mold Temperature	138 to 163	°C
Back Pressure	0.345 to 0.689	MPa

Notes

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

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.

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