InStruc® PPSUVHFGF20

Product Description 20% GLASS FIBER REINFORCED, HIGH FLOW PPSU

Material Status Commercial: Active

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

Filler / Reinforcement Glass Fiber, 20% Filler by Weight

Features Filled, Good Dimensional Stability, High Flow, High Stiffness, High Strength

Uses Aerospace Applications, Connectors, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Housings, 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	1.44	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.40	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5930	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	6070	MPa	ASTM D790
Flexural Strength (Yield)	165	MPa	ASTM D790

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

Flammability	Nominal Value	Unit
Flame Rating		
1.5 mm	V-0	
3.0 mm	V-0	

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	2.5	hr
Processing (Melt) Temp	343 to 388	°C
Mold Temperature	138 to 163	°C
Back Pressure	0.345 to 0.689	MPa

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

Americhem World Headquarters
2000 Americhem Way
Cuyahoga Falls, OH 44221
Tel: +1 330 929 4213
Toll Free: +1 800 228 3476

Americhem Engineered Compounds
20 Progress Drive
Morrisvillle, PA 19067
Tel: +1 215 736 1126
Toll Free: +1 800 863 4260

NOTES

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

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