ColorFast® PPSU-H200

Product Description PPSU-H200 is a standard flow injection molding grade of polyphenylsulfone (PPSU) with high heat resistance and toughness.

Material Status Commercial: Active

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

Features Excellent Colorability

Uses Aerospace Applications, Connectors, Consumer Applications, Engineering Parts, Industrial Applications, Industrial Parts, Military/Defense Applications, Oil/Gas Applications, Outdoor Applications

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (365°C/5.0 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (24 hr)	0.33	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [2] (Yield)	75.0	MPa	ASTM D638
Tensile Elongation [2]			ASTM D638
Yield	7.2	%	
Break	70 to 120	%	
Flexural Modulus [2]	2410	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	690	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	193	°C	

Injection	Nominal Value	Unit
Drying Temperature	171 to 182	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	332 to 366	°C
Mold Temperature	132 to 160	°C

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.

[2] 51 mm/min

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