ColorRx® PPSU-H200

Product Description PPSU-H200 is a standard flow injection molding grade of polyphenylsulfone (PPSU) with high heat resistance and toughness. It is suitable for healthcare applications and sterilizable by EtO and steam.

Material Status Commercial: Active

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

Features Autoclave Sterilizable, Biocompatible, E-beam Sterilizable, Ethylene Oxide Sterilizable, Excellent Colorability, Heat Sterilizable, Radiation Sterilizable, Steam Sterilizable

Uses Engineering Parts, Medical/Healthcare Applications, Metal Replacement, Surgical Instruments

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	

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: 2/11/2026

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Polyphenylsulfone

Injection	Nominal Value	Unit
Drying Temperature	171 to 182	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	343 to 360	°C
Mold Temperature	132 to 166	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	35 to 75	rpm

Notes

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

[2] 51 mm/min

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