ColorRx® PPSU-1000RX

Product Description PPSU-1000RX is a high 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	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.37	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [2] (Yield)	68.9	MPa	ASTM D638
Tensile Elongation [2]			ASTM D638
Yield	7.2	%	
Break	60	%	
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	207	°C	

Notes

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

[2] 51 mm/min

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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