

ColorFast® PPSU-1000
Americhem - Polyphenylsulfone
General Information
Product Description

PPSU-1000 is a high flow injection molding grade of polyphenylsulfone (PPSU) with high heat resistance and toughness.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Biocompatible	• Excellent Colorability	
Uses	• Engineering Parts	• Metal Replacement	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.37	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	340000	psi	ASTM D638
Tensile Strength ² (Yield)	10000	psi	ASTM D638
Tensile Elongation ² (Yield)	7.2	%	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ²	350000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	13	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	405	°F	ASTM D648

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

² 2.0 in/min
