

**ColorFast® PPSU-H200**

Americhem - Polyphenylsulfone

**General Information**
**Product Description**

PPSU-H200 is a standard 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	• Excellent Colorability		
Uses	• Aerospace Applications	• Engineering Parts	• Military/Defense Applications
	• Connectors	• Industrial Applications	• Oil/Gas Applications
	• Consumer Applications	• Industrial Parts	• Outdoor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29		ASTM D792
Melt Mass-Flow Rate (MFR) (365°C/5.0 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.33	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	10900	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	7.2	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	70 to 120	%	ASTM D638
Flexural Modulus <sup>2</sup>	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)	380	°F	ASTM D648

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	340 to 360	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	630 to 690	°F
Mold Temperature	270 to 320	°F

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min
