

**ColorFast® PPSU-1000MD**

Americhem - Polyphenylsulfone

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

PPSU-1000MD is a high flow injection molding grade of polyphenylsulfone (PPSU) with high heat and chemical resistance. It is suitable for healthcare applications and sterilizable by EtO and steam.

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>		
Availability	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Autoclave Sterilizable</li> <li>Biocompatible</li> <li>E-beam Sterilizable</li> </ul>	<ul style="list-style-type: none"> <li>Ethylene Oxide Sterilizable</li> <li>Excellent Colorability</li> <li>Heat Sterilizable</li> </ul>	<ul style="list-style-type: none"> <li>Radiation Sterilizable</li> <li>Steam Sterilizable</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Engineering Parts</li> <li>Medical/Healthcare Applications</li> </ul>	<ul style="list-style-type: none"> <li>Metal Replacement</li> <li>Surgical Instruments</li> </ul>	
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>		

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

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 Strength <sup>2</sup> (Yield)	10000	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	7.2	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	60	%	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)	405	°F	ASTM D648

**Notes**

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

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

