

Stratasys® Polyphenylsulfone

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

Material Notes:

PPSF/PPSU (polyphenylsulfone) material has the greatest strength, heat and chemical resistance of all Stratasys materials - ideal for aerospace, automotive and medical applications. Stratasys FDM (Fused Deposition Modeling) systems manufacture parts using PPSF/PPSU material that are not only mechanically superior, but also dimensionally accurate, accurately predicting end-product performance. Users can also sterilize PPSF via steam autoclave, EtO sterilization, plasma sterilization, chemical sterilization and radiation. PPSF/PPSU gives you the ability to manufacture Real Parts, direct from digital files. Information provided by Stratasys®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stratasys-Polyphenylsulfone.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	86	86	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	2.068 GPa	299.9 ksi	Type 1, 2"/min; ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.206 GPa	320.0 ksi	ASTM D790
Izod Impact, Notched	0.5873 J/cm	1.100 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.655 J/cm	3.100 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	189 $\text{Å}^\circ\text{C}$	372 $\text{Å}^\circ\text{F}$	ASTM D648
Glass Transition Temp, Tg	230 $\text{Å}^\circ\text{C}$	446 $\text{Å}^\circ\text{F}$	DMA (SSYS)
Flammability, UL94	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.45	3.45	IEC 60250
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	14.6 kV/mm	371 kV/in	IEC 60112

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