

Generic PPSU

Polyphenylsulfone

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.28 - 1.36	g/cm³	ASTM D792
23°C	1.29 - 1.30	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (365°C/5.0 kg)	7.0 - 37	g/10 min	ASTM D1238
Molding Shrinkage			
Flow: 23°C	0.70 - 0.71	%	ASTM D955
23°C	0.70 - 1.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.36 - 0.38	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2330 - 2360	MPa	ASTM D638
23°C	2270 - 2800	MPa	ISO 527-2
Tensile Strength (23°C)	69.1 - 70.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	7.0 - 90	%	ASTM D638
Fracture, 23°C	28 - 90	%	ASTM D638
Flexural Modulus (23°C)	2340 - 2410	MPa	ASTM D790
Flexural Strength (23°C)	89.3 - 100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	680 - 690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	206 - 209	°C	ASTM D648
CLTE - Flow			
--	5.5E-5 - 7.2E-5	cm/cm/°C	ASTM D696
--	5.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+12 - 9.0E+15	ohms · cm	ASTM D257
Dielectric Strength (23°C)	12 - 200	kV/mm	ASTM D149
Dielectric Constant (23°C)	3.32 - 3.54		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	140 - 180	°C	

Drying Time	2.5 - 6.0	hr
Rear Temperature	350 - 374	°C
Middle Temperature	360 - 385	°C
Front Temperature	374 - 395	°C
Nozzle Temperature	368 - 370	°C
Processing (Melt) Temp	360 - 390	°C
Mold Temperature	135 - 160	°C
Injection Pressure	86.2 - 103	MPa

Injection instructions

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