

Generic PSU

Polysulfone

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.24 - 1.25	g/cm³	ASTM D792
23°C	1.23 - 1.32	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.69 - 0.80	%	ASTM D955
23°C	0.70 - 0.84	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	119 - 120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2460 - 2830	MPa	ASTM D638
23°C	1800 - 2610	MPa	ISO 527-2
Tensile Stress			
Yield, 23°C	60.0 - 80.0	MPa	ISO 527-2
Fracture, 23°C	54.7 - 70.6	MPa	ASTM D638
23°C	58.4 - 76.4	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	5.0 - 75	%	ASTM D638
Fracture, 23°C	73 - 75	%	ASTM D638
Flexural Modulus (23°C)	2250 - 2790	MPa	ASTM D790
Flexural Strength (23°C)	80.7 - 112	MPa	ASTM D790
Coefficient of Friction	0.080 - 0.37		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	54 - 75	J/m	ASTM D256
23°C	5.0 - 7.8	kJ/m²	ISO 180
Unnotched Izod Impact (23°C)	370 - 2400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	178 - 183	°C	ASTM D648

1.8 MPa, not annealed	173 - 174	°C	ASTM D648
1.8 MPa, not annealed	168 - 180	°C	ISO 75-2/A
CLTE - Flow	5.6E-5 - 5.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+12 - 1.1E+17	ohms·cm	ASTM D257
Dielectric Strength (23°C)	17 - 22	kV/mm	ASTM D149
Dielectric Constant (23°C)	2.99 - 3.16		ASTM D150
Dissipation Factor (23°C)	7.0E-4 - 7.0E-3		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	134 - 149	°C	
Drying Time	4.0 - 4.1	hr	
Suggested Max Moisture	0.020 - 0.050	%	
Rear Temperature	331 - 332	°C	
Middle Temperature	330 - 344	°C	
Front Temperature	332 - 356	°C	
Processing (Melt) Temp	350 - 366	°C	
Mold Temperature	119 - 150	°C	
Injection Pressure	8.00 - 121	MPa	
Injection instructions			

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