

Generic PESU

Polyethersulfone

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.36 - 1.37	g/cm³	ASTM D792
23°C	1.37 - 1.39	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	20 - 75	g/10 min	ASTM D1238
Molding Shrinkage			
Flow: 23°C	0.60 - 0.91	%	ASTM D955
23°C	0.69 - 0.90	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.42 - 0.60	%	ASTM D570
23°C, 24 hr	0.10 - 0.91	%	ISO 62
Equilibrium, 23°C, 50% RH	0.76 - 1.0	%	ISO 62
Solution Viscosity	449 - 818	mPa·s	ASTM D445
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2540 - 3070	MPa	ASTM D638
23°C	2580 - 3030	MPa	ISO 527-2
Tensile Stress			
Yield, 23°C	78.0 - 91.6	MPa	ISO 527-2
Fracture, 23°C	53.0 - 90.0	MPa	ISO 527-2
23°C	82.0 - 91.6	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	4.7 - 7.1	%	ASTM D638
Yield, 23°C	5.9 - 7.0	%	ISO 527-2
Fracture, 23°C	3.0 - 62	%	ASTM D638
Flexural Modulus			
23°C	2280 - 2800	MPa	ASTM D790
23°C	2000 - 3000	MPa	ISO 178
Flexural Strength			
23°C	110 - 128	MPa	ASTM D790
23°C	115 - 131	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	6.0 - 6.5	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	43 - 93	J/m	ASTM D256
23°C	4.3 - 8.9	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	2100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	199 - 205	°C	ASTM D648
1.8 MPa, not annealed	188 - 210	°C	ISO 75-2/A
Glass Transition Temperature	220	°C	ASTM E1356
CLTE - Flow			
--	4.8E-5 - 5.5E-5	cm/cm/°C	ASTM D696
--	4.7E-5 - 7.1E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+4 - 1.0E+17	ohms · cm	ASTM D257
Dielectric Strength (23°C)	14 - 18	kV/mm	ASTM D149
Dielectric Constant (23°C)	3.50 - 3.54		ASTM D150
Dissipation Factor			
23°C	1.7E-3 - 5.7E-3		ASTM D150
23°C	1.7E-3 - 0.014		IEC 60250
Comparative Tracking Index	100 - 125	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	135 - 177	°C	
Drying Time	2.5 - 6.0	hr	
Suggested Max Moisture	0.020 - 0.050	%	
Rear Temperature	349 - 371	°C	
Middle Temperature	365 - 371	°C	
Front Temperature	359 - 377	°C	
Nozzle Temperature	345 - 361	°C	
Processing (Melt) Temp	350 - 365	°C	
Mold Temperature	135 - 160	°C	
Injection Pressure	8.00 - 88.8	MPa	
Back Pressure	0.500 - 7.35	MPa	
Screw Speed	55 - 80	rpm	
Injection instructions			

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

