

Generic PESU - Carbon Fiber

Polyethersulfone

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.38 - 1.51	g/cm ³	ASTM D792
23°C	1.42 - 1.69	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.092 - 0.20	%	ASTM D955
23°C	0.10 - 0.30	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30 - 0.42	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5860 - 9900	MPa	ASTM D638
Tensile Stress			
Fracture, 23°C	90.0 - 92.4	MPa	ISO 527-2
23°C	103 - 173	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	1.5 - 3.0	%	ASTM D638
Flexural Modulus			
23°C	5170 - 23700	MPa	ASTM D790
23°C	6300 - 22900	MPa	ISO 178
Flexural Strength			
23°C	165 - 303	MPa	ASTM D790
23°C	125 - 305	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	52 - 69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	480 - 540	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	204 - 211	°C	ASTM D648
1.8 MPa, not annealed	210 - 270	°C	ISO 75-2/A
CLTE - Flow			
--	1.3E-5 - 3.8E-5	cm/cm/°C	ASTM D696
--	4.0E-6 - 2.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	5.1E+2 - 1.2E+10	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+2 - 1.2E+8	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	349 - 365	°C	
Middle Temperature	357 - 370	°C	
Front Temperature	357 - 377	°C	
Processing (Melt) Temp	350 - 362	°C	
Mold Temperature	148 - 161	°C	
Injection Pressure	86.2 - 121	MPa	

Injection instructions

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