INSTRUC PESGF20

Polyethersulfone

Infinity LTL Engineered Compounds

Message:

Instruc glass and carbon fiber reinforced, mineral and process additive filled structural compounds - Offered in all Infinity base resins
Provide significant improvements in strength, stiffness, creep resistance, fatigue endurance and impact & dimensional stability
Increased thermal HDTUL and long term heat resistance

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Fatigue Resistant		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Heat Aging Resistance		
	Good Impact Resistance		
	High Flow		
	High Stiffness		
	High Strength		
	Medium Heat Resistance		
Uses	Structural Parts		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.51	g/cm^3	ASTM D792
Specific Volume	0.661	cm^3/g	
Molding Shrinkage - Flow	0.30 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.35	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	131	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	193	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	216	°C	ASTM D648
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+17	ohms	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0	hr
Processing (Melt) Temp	343 to 379	°C
Mold Temperature	149	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.038 to 0.076	mm

Recommended distributors for this material

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