

INELEC PPSCF40

Polyphenylene Sulfide

Infinity LTL Engineered Compounds

Message:

40% CARBON FIBER REINFORCED POLYPHENYLENE SULFIDE

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	210	MPa	ASTM D638
Tensile Elongation (Break)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	25900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Unnotched Izod Impact	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	266	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	316 to 332	°C	
Mold Temperature	135 to 177	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	7.6E-3 to 0.013	mm	

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Recommended distributors for this material

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