

# INELEC PSUCF10

Polysulfone  
Infinity LTL Engineered Compounds

Message:  
10% CARBON FIBER FILLED POLYSULFONE

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	182	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	327 to 371	°C	
Middle Temperature	327 to 371	°C	
Front Temperature	327 to 371	°C	
Processing (Melt) Temp	338 to 349	°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	

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