

Thermec S™ 4150RC50

Polyphenylene Sulfide
Technical Polymers, LLC

Message:
PPS, 50% Glass Fiber / Mineral
Processing Method: Injection Molding

General Information			
Filler / Reinforcement	Glass \mineral, 50% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	16000	MPa	ISO 527-2
Tensile Stress (23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.0 - 3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	270	°C	ISO 75-2/A
Melting Temperature (DSC)	280	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms·cm	ISO 3915
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	130 - 150	°C	
Drying Time	2.0 - 6.0	hr	
Processing (Melt) Temp	310 - 340	°C	
Mold Temperature	140 - 170	°C	

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