

# Thermec™ 4150CF20

Polyphenylene Sulfide  
Technical Polymers, LLC

Message:

Thermec™4150CF20 is a polyphenylene sulfide (PPS) material, which contains a 20% carbon fiber reinforced material. This product is available in North America and is processed by injection molding. Thermec™The main characteristics of 4150CF20 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	172	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.2	%	ASTM D638
Flexural Modulus (23°C)	15900	MPa	ASTM D790
Flexural Strength (23°C)	241	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	268	°C	ASTM D648
Melting Temperature	280	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			
Volum Resistivity, ASTM D257: < 1e5 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	135 - 149	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	316 - 343	°C	
Mold Temperature	135 - 149	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.103 - 0.689	MPa	
Screw Speed	100	rpm	
Clamp Tonnage	3.4 - 5.5	kN/cm²	
Cushion	6.35 - 12.7	mm	
Screw L/D Ratio	20.0:1.0		

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#### Recommended distributors for this material

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