

Thermec N™ 4314CF20

Polyphthalamide
Technical Polymers, LLC

Message:
PPA, 20% Carbon Fiber
Processing Method: Injection Molding

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	18500	MPa	ISO 527-2
Tensile Stress (23°C)	240	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)	5.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	277	°C	ISO 75-2/A
Melting Temperature (DSC)	310	°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	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90 - 110	°C	
Drying Time	4.0 - 6.0	hr	
Processing (Melt) Temp	325 - 345	°C	
Mold Temperature	135 - 165	°C	

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Recommended distributors for this material

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