

Firestone CG430-001

Polyamide 6
Firestone Textiles Company

Message:
Fibre Dimension: Length: 4mm, Diameter: 14micron

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	heat stabilizer
Features	Thermal Stability
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	160	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	8300	MPa	ASTM D790
Flexural Strength	205	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	216	°C	ASTM D648
1.8 MPa, not annealed	210	°C	ASTM D648
Melting Temperature	220	°C	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696

Additional Information		
Fiber Dimension: Length-4mm, Diameter-14micron		
Extrusion	Nominal Value	Unit
Suggested Max Moisture	0.20	%
Cylinder Zone 1 Temp.	249 - 260	°C
Cylinder Zone 3 Temp.	254 - 266	°C
Cylinder Zone 4 Temp.	254 - 266	°C
Cylinder Zone 5 Temp.	260 - 271	°C
Melt Temperature	260 - 271	°C

Extrusion instructions

Max Melt Temp: 515 - 550°F Quench: 65 - 75°F

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Recommended distributors for this material

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