

GATONE™ 5630CF

Polyetheretherketone

Solvay Specialities India Private Limited (SSIPL)

Message:

GATONE™ 5630CF is a Polyetheretherketone (PEEK) material filled with 30% carbon fiber. It is available in Asia Pacific, Europe, or North America. Primary attribute of GATONE™ 5630CF: Flame Rated.
Typical application of GATONE™ 5630CF: Wire & Cable

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, Injection Molded)	22000	MPa	ASTM D638
Tensile Strength (23°C, Injection Molded)	220	MPa	ASTM D638
Tensile Elongation (Break, 23°C, Injection Molded)	2.5	%	ASTM D638
Flexural Modulus (23°C, Injection Molded)	18000	MPa	ASTM D790
Flexural Strength (23°C, Injection Molded)	350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	315	°C	ASTM D648
Continuous Use Temperature	260	°C	ASTM D794
Glass Transition Temperature	148	°C	DSC
CLTE - Flow	5.7E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Oxygen Index	45	%	ASTM D2863

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