

GATONE™ 5700

Polyetheretherketone

Solvay Specialities India Private Limited (SSIPL)

Message:

GATONE™ 5700 is a Polyetheretherketone (PEEK) material. It is available in Asia Pacific, Europe, or North America. Primary attribute of GATONE™ 5700: Flame Rated.
Typical application of GATONE™ 5700: Wire & Cable

General Information			
Agency Ratings	UL Unspecified Rating		
Appearance	Brown		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (380°C/5.0 kg)	35.0 to 70.0	cm ³ /10min	ASTM D1238
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, Injection Molded)	3800	MPa	ASTM D638
Tensile Strength (23°C, Injection Molded)	91.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C, Injection Molded)	5.0	%	ASTM D638
Flexural Modulus (23°C, Injection Molded)	3600	MPa	ASTM D790
Flexural Strength (23°C, Injection Molded)	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	100	J/m	ASTM D256
Unnotched Izod Impact (23°C)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	140	°C	ASTM D648
Continuous Use Temperature	360	°C	ASTM D794
Glass Transition Temperature	148	°C	DSC
CLTE - Flow	8.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant (23°C, 60 Hz)	2.80		ASTM D150
Dissipation Factor (23°C, 60 Hz)	3.0E-3		ASTM D150
Comparative Tracking Index (CTI)	150	V	UL 746
Flammability	Nominal Value	Unit	Test Method

Flame Rating (3.20 mm)	V-0		UL 94
Oxygen Index	40	%	ASTM D2863

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