

GATONE™ 5300

Polyetheretherketone

Solvay Specialities India Private Limited (SSIPL)

Message:

GATONE™ 5300 is a Polyetheretherketone (PEEK) material. It is available in Asia Pacific, Europe, or North America. Primary attribute of GATONE™ 5300: Flame Rated.
Typical applications include:
Medical/Healthcare
Wire & Cable

General Information			
Agency Ratings	EPA TSCA		
	UL Unspecified Rating		
	USP Class VI		
Appearance	Brown		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Volume-Flow Rate (MVR) (380°C/5.0 kg)	3.00 to 5.00	cm³/10min	ASTM D1238
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, Injection Molded)	3800	MPa	ASTM D638
Tensile Strength (23°C, Injection Molded)	95.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C, Injection Molded)	50	%	ASTM D638
Flexural Modulus (23°C, Injection Molded)	3800	MPa	ASTM D790
Flexural Strength (23°C, Injection Molded)	160	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	60	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	150	°C	ASTM D648
Continuous Use Temperature	260	°C	ASTM D794
Glass Transition Temperature	148	°C	DSC
CLTE - Flow	9.5E-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)	2.90		ASTM D150
Dissipation Factor (23°C, 60 Hz)	3.0E-3		ASTM D150
Arc Resistance	35.0	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Oxygen Index	40	%	ASTM D2863

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