

FREQTIS® P1231A

Polyphenylene Sulfide

Polyplastics Co., Ltd.

Message:

FREQTIS®P1231A is a polyphenylene sulfide (PPS) product, which contains 65% glass and mineral. It is available in North America, Europe or Asia Pacific. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E306606-101522832		
Filler / Reinforcement	Glass \mineral, 65% filler by weight		
UL File Number	E306606		
Forms	Particle		
Part Marking Code (ISO 11469)	>PPS-(MD+GF)65		
Physical	Nominal Value	Unit	Test Method
Density	2.30	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Transverse flow: 2.00mm	0.50	%	Internal method
Flow: 2.00mm	0.40	%	Internal method
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	90.0	MPa	ISO 527-2
Tensile Strain (Break)	0.70	%	ISO 527-2
Flexural Modulus	16000	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Flexural Strain	0.90	%	ISO 178
Color Number	KD3051		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.6	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow	2.0E-5	cm/cm/°C	Internal method
Lateral	3.0E-5	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+14	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	10	kV/mm	IEC 60243-1
Relative Permittivity			
1 MHz	12.0		IEC 60250
3.00 GHz ¹	12.0		Internal method
Dissipation Factor ² (3.00 GHz)	3.0E-3		Internal method

Arc Resistance	108	sec	
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (310°C, 1000 sec ⁻¹)	280000	mPa·s	ISO 11443
NOTE			
1.	Cavity Resonator Method		
2.	Cavity Resonator Method		

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