

FREQTIS® P0833A

Polyphenylene Sulfide

Polyplastics Co., Ltd.

Message:

FREQTIS® P0833A is a Polyphenylene Sulfide (PPS) product filled with 60% mineral. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Mineral,60% Filler by Weight		
UL File Number	E306606		
Part Marking Code (ISO 11469)	>PPS-MD60<		
Physical	Nominal Value	Unit	Test Method
Density	2.12	g/cm ³	ISO 1183
Molding Shrinkage ¹			
Across Flow : 2.00 mm	0.60	%	
Flow : 2.00 mm	0.30	%	
Water Absorption (23°C, 24 hr)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	115	MPa	ISO 527-2
Tensile Strain (Break)	0.80	%	ISO 527-2
Flexural Modulus	18000	MPa	ISO 178
Flexural Stress	165	MPa	ISO 178
Flexural Strain	0.90	%	ISO 178
Color Number	KD3051		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.3	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	
CLTE			
Flow	2.0E-5	cm/cm/°C	
Transverse	3.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+15	ohms · cm	IEC 60093
Electric Strength (3.00 mm)	12	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
1 MHz	8.00		
3.00 GHz ²	8.00		
Dissipation Factor ³ (3.00 GHz)	3.0E-3		
Arc Resistance	159	sec	
Comparative Tracking Index	175	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)	290	Pa·s	ISO 11443
NOTE			
1.	80x80x2 mm		
2.	Cavity Resonator Method		
3.	Cavity Resonator Method		

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