Engineering Thermoset Material

FM 8720

Description		FM 8720 is a high gravity, mellatic powder phenolic novolac molding compound.			
Available colors			Black		
Available molding grades Form			Compression, Transfer Granular		
Properties ¹			Typical Value	Unit	Method
	Specific Gravity		3.7	g/cm ³	ASTM D792
a	Apparent (Powder) density		-	g/cm³	ASTM D1895
sic	Molding shrinkage		0.3	%	ASTM D955
Physical	Post shrinkage		-	%	ASTM D955
	Water absorption	24 hour	-	%	ASTM D570
		48 hour	-	%	ASTM D570
	Temperature of	As Molded	-	°C at 1,8 MPa	ASTM D648A
	deflection under load	Post Baked	> 282	°C at 1,8 MPa	ASTM D648A
Thermal	Thermal Conductivity		-	W/mK	ASTM C518
	UL Temperature Index		-	°C	UL 746B
	UL-flammability	3.2 mm	-	-	UL 94
		1,6 mm	-	-	UL 94
	Coefficient of linear	parallel	-	10 E-6/°C	ASTM E831
	thermal expansion	perpendicular	-	10 E-6/°C	ASTM E831
Mechanical	Flexural strength		80	MPa	ASTM D790
	Flexural modulus		17	GPa	ASTM D790
	Strain to failure in flexure		-	%	ASTM D790
	Tensile strength		48	MPa	ASTM D638
	Izod impact strength, notched		-	J/m	ASTM D256A
	Compressive strength		260	MPa	ASTM D695
	Rockwell Hardness, E Scale		-		ASTM D785
Electrical	Dielectric Constant, I MHz, wet		-		ASTM D150
	Dissipation Factor, 1 MHz, wet		-		ASTM D150
	Arc Resistance		-	Seconds	ASTM D495
	Dielectric strength,	ST	-	kV/mm	ASTM D149
	60 Hz, wet	SS	-	kV/mm	ASTM D149
	Tracking resistance		-	V	ASTM D3638 (IEC 112)

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¹ Properties measured on compression molded ASTM specimens

² Values are typical, not statistical minimums. Contact your Sumitomo Bakelite representative for specifications.

ST = short time. SS = step-by-step. Wet = immersed in H₂0 for 48 hrs. at 50 °C prior to testing.

Certification to ASTM D-5948 requires batch testing. All testing in accordance with ASTM D-5948. ASTM D-5948 supersedes MIL-M-14.

Contact your Sumitomo Bakelite representative for post baking recommendations.

Revision Date: 4/15/2011

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