

Sumitomo DAP FS-80-P-1

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

FS-80-P-1 is a long glass fiber reinforced, flame retardant, diallyl meta-phthalate molding compound, which meets the requirements of ASTM D5948 Type GII-30F

General Information	
Filler / Reinforcement	Long Glass Fiber
Additive	Flame Retardant
Features	Flame Retardant
Agency Ratings	ASTM D 5948, Type GII-30F
Appearance	Grey
Forms	Flakes
Processing Method	Compression Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.73	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.15 to 0.35	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.30	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	88.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	13800	MPa	ASTM D790
Flexural Strength (Compression Molded)	143	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	350	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	> 260	°C	ASTM D648
Thermal Conductivity	0.34	W/m/K	ASTM C177
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	17	kV/mm	
-- ³	15	kV/mm	
Dielectric Constant ⁴ (1 kHz)	3.30		ASTM D2520

Dissipation Factor ⁵ (1 kHz)	0.020		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index	> 600	V	IEC 60112, ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	41	%	ASTM D2863

NOTE

1.	Wet, 60 Hz
2.	Method A (Short-Time)
3.	Method B (Step-by-Step)
4.	Wet
5.	Wet

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