

Sumitomo DAP 52-70-70 V0-P

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

52-70-70 V0-P is a glass fiber reinforced diallyl phthalate compound which conforms with the requirements of ASTM D5948 Type SDG-F.

General Information	
UL YellowCard	E123472-221377
Filler / Reinforcement	Glass Fiber
Agency Ratings	ASTM D 5948, Type SDG-F
Appearance	Black
	Blue
	Green
Forms	Granules
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.91	g/cm ³	ASTM D792
Apparent Density	0.75	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.0	MPa	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Compressive Strength	150	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	> 280	°C	
1.8 MPa, Annealed	> 280	°C	
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	14	kV/mm	ASTM D149

Dielectric Constant ² (1 MHz)	3.50		ASTM D150
Dissipation Factor ³ (1 MHz)	0.014		ASTM D150
Arc Resistance	130	sec	ASTM D495
Comparative Tracking Index	> 600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
NOTE			
1.	60 Hz, Wet		
2.	Wet		
3.	Wet		

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