

Sumitomo DAP 52-01

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

52-01 is a short glass fiber reinforced, non-flame retardant, diallyl ortho-phthalate molding compound, which meets the requirements of ASTM D5948 Type SDG.

General Information	
UL YellowCard	E123472-221375
Filler / Reinforcement	Glass Fiber
Agency Ratings	ASTM D 5948, Type SDG
Appearance	Black
	Blue
	Green
	Red
Forms	Granules
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.93	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	69.0	MPa	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	130	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 (1.8 MPa, Unannealed)	205	°C	ASTM D648
CLTE - Flow	2.1E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.28	W/m/K	ASTM C518
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			ASTM D150
1 kHz	4.00		
1 MHz	3.50		
Dissipation Factor ³			ASTM D150
1 kHz	0.010		
1 MHz	0.016		
Arc Resistance	150	sec	ASTM D495
Comparative Tracking Index	> 600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	26	%	ASTM D2863
NOTE			
1.	60 Hz, Wet		
2.	Wet		
3.	Wet		

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