

Sumitomo DAP 52-40-40-P

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

52-40-40-P is a long glass fiber reinforced diallyl phthalate molding compound, which meets the requirements of ASTM D5948 Type GDI-30F.

General Information			
Filler / Reinforcement	Long Glass Fiber		
Agency Ratings	ASTM D 5948, Type GDI-30F		
Appearance	Green		
	Red		
Forms	Flakes		
Processing Method	Compression Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.79	g/cm ³	ASTM D792
Apparent Density	0.30	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.15 to 0.35	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.32	%	ASTM D570
Flammability - Ignition	1.5	min	ASTM D229

Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	125	MPa	ASTM D790
Compressive Strength	187	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	52	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	260	°C	
1.8 MPa, Annealed	> 280	°C	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.31	W/m/K	ASTM C518

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	17	kV/mm	ASTM D149
Dielectric Constant ²			ASTM D150
	1 kHz	4.40	
	1 MHz	4.30	
Dissipation Factor ³			ASTM D150

1 kHz	0.010		
1 MHz	0.016		
Arc Resistance	133	sec	ASTM D495
Comparative Tracking Index	> 600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	ASTM D2863
NOTE			
1.	60 Hz, Wet		
2.	Wet		
3.	Wet		

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