

Sumitomo DAP FS-10 VO-P

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

FS-10 VO-P is a short glass fiber reinforced, flame retardant, diallyl meta-phthalate molding compound, which meets the requirements of ASTM D5948 Type SIG-F.

General Information			
UL YellowCard	E123472-221387		
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
Features	Flame Retardant		
Agency Ratings	ASTM D 5948, Type SIG-F		
Appearance	Black		
	Blue		
	Green		
	Grey		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.10 to 0.30	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.25	%	ASTM D570
Flammability			ASTM D229
Burning	50.0	sec	
Ignition	130.0	sec	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	83.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	18000	MPa	ASTM D790
Flexural Strength (Compression Molded)	115	MPa	ASTM D790
Compressive Strength	180	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	33	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
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Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	250	°C	ASTM D648
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM E831
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	14	kV/mm	ASTM D149
Dielectric Constant ¹ (1 MHz)	3.90		ASTM D2520
Dissipation Factor ² (1 MHz)	0.020		ASTM D150
Arc Resistance	130	sec	ASTM D495
Comparative Tracking Index	> 600	V	IEC 60112, ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.20 mm	V-0		
Oxygen Index	50	%	ASTM D2863
NOTE			
1.	Wet		
2.	Wet		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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