Synres-Almoco DAP 5567

Diallyl Phthalate

Synres-Almoco BV

Message:

Glass-fibre reinforced diallyl phthalate moulding compound free from halogens
Good mechanical strength together with retention of high electrical isolation properties under hot humid conditions, exceptional dimensional stability even under severe environmental conditions
Primary application(s): Pin and socket connectors, Spools, Potentiometers, Switches
This product meets the allowed upper limits for heavy metals and PCAs and also conforms to the requirements of the EU directives 2002/95 (RoHS), 2002/96 (WEEE) and 2006/122 (PFOS)

General Information	
Filler / Reinforcement	Glass Fiber
Features	Good Dimensional Stability Good Electrical Properties Good Strength Halogen Free
Uses	Connectors Switches
Agency Ratings	EU 2002/96/EC (WEEE) EU 2006/122/EC
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Compression Molding Injection Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.90 to 2.10	g/cm³	ISO 1183
Apparent Density	0.75 to 0.90	g/cm³	ISO 60
Molding Shrinkage - Flow			ISO 2577
-- [1]	0.50 to 0.60	%	
-- [2]	0.30 to 0.40	%	
Water Absorption (23°C, 24 hr)	< 0.20	%	ISO 62
Post Shrinkage [3]	< 0.050	%	ISO 2577
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2
Compression Molded	6000 to 9000	MPa	
Injection Molded	9000 to 11000	MPa	

Tensile Stress			ISO 527-2
Compression Molded	35.0 to 60.0	MPa	
Injection Molded	40.0 to 70.0	MPa	
Flexural Modulus			ISO 178
Compression Molded	8000 to 12000	MPa	
Injection Molded	13000 to 16000	MPa	
Flexural Stress			ISO 178
Compression Molded	80.0 to 100	MPa	
Injection Molded	100 to 140	MPa	
Compressive Stress	150 to 200	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
Compression Molded	2.5 to 3.5	kJ/m^2	
Injection Molded	3.5 to 5.0	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
Compression Molded	5.0 to 10	kJ/m^2	
Injection Molded	8.0 to 11	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 200	°C	ISO 75-2/A
8.0 MPa, Unannealed	> 180	°C	ISO 75-2/C
CLTE - Flow (50 to 100°C)	5.0E-6 to 1.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.90 to 1.1	W/m/K	ASTM E1461
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14 to 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+14 to 1.0E+15	ohms·cm	IEC 60093
Electric Strength	35 to 40	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	5.00		
100 Hz	4.50		
	4.50		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	0.010 to 0.030		
1 MHz	0.010 to 0.030		
Arc Resistance	PLC 4		ASTM D495
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm, Tested by RASCHIG)	V-0		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	930	°C	IEC 60695-2-13
NOTE			
1.	Compression Molded		
2.	Injection Molded		
3.	168 h / 110°C		

Recommended distributors for this material

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

WECHAT