

Synres-Almoco DAP 5553

Diallyl Phthalate
Synres-Almoco BV

Message:

Glass-fibre reinforced diallyl phthalate moulding compound
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): Connectors, Bobbins, 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
Uses	Bobbins
	Connectors
	Switches
Agency Ratings	EU 2002/96/EC (WEEE)
	EU 2006/122/EC
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.80 to 2.00	g/cm ³	ISO 1183
Apparent Density	0.75 to 0.90	g/cm ³	ISO 60
Molding Shrinkage - Flow			ISO 2577
-- ¹	0.15 to 0.45	%	
-- ²	0.15 to 0.35	%	
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	10000 to 16000	MPa	
Tensile Stress			ISO 527-2

Compression Molded	35.0 to 60.0	MPa	
Injection Molded	80.0 to 100	MPa	
Flexural Modulus			ISO 178
Compression Molded	8000 to 12000	MPa	
Injection Molded	12000 to 18000	MPa	
Flexural Stress			ISO 178
Compression Molded	90.0 to 110	MPa	
Injection Molded	150 to 180	MPa	
Compressive Stress	150 to 200	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
Compression Molded	3.5 to 6.0	kJ/m ²	
Injection Molded	4.0 to 8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
Compression Molded	5.0 to 10	kJ/m ²	
Injection Molded	10 to 15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 180	°C	ISO 75-2/A
8.0 MPa, Unannealed	120 to 140	°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	15 to 20	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	> 500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.600 mm)	V-0		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	875	°C	IEC 60695-2-13
NOTE			
1.	Compression Molded		
2.	Injection Molded		
3.	168 h / 110°C		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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