Synres-Almoco DAP 5563

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, easy flowing for use in long runner systems.
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 Flow 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	Injection Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.80 to 2.00	g/cm³	ISO 1183
Apparent Density	0.75 to 0.90	g/cm³	ISO 60
Molding Shrinkage - Flow [1]	0.15 to 0.45	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.20	%	ISO 62
Post Shrinkage [2]	< 0.050	%	ISO 2577
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	10000 to 14000	MPa	ISO 527-2
Tensile Stress (Injection Molded)	80.0 to 90.0	MPa	ISO 527-2
Flexural Modulus (Injection Molded)	14000 to 18000	MPa	ISO 178
Flexural Stress (Injection Molded)	120 to 160	MPa	ISO 178
Compressive Stress	150 to 200	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	3.5 to 4.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (Injection Molded)	7.0 to 10	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 200	°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 (1.50 mm)	V-1		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	875	°C	IEC 60695-2-13
NOTE			
1.	Injection Molded		
2.	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