

Synres-Almoco DAIP 6551

Diallyl Phthalate
Synres-Almoco BV

Message:

Glass-fibre reinforced diallyl isophthalate 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	0.70 to 0.85	g/cm ³	ISO 60
Molding Shrinkage - Flow ¹	0.40 to 0.60	%	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 (Compression Molded)	4000 to 6000	MPa	ISO 527-2
Tensile Stress (Compression Molded)	40.0 to 60.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	8000 to 10000	MPa	ISO 178
Flexural Stress (Compression Molded)	70.0 to 100	MPa	ISO 178
Compressive Stress	150 to 200	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (Compression Molded)	2.5 to 4.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (Compression Molded)	4.0 to 6.0	kJ/m ²	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	150 to 170	°C	ISO 75-2/C
CLTE - Flow (50 to 100°C)	5.0E-5 to 6.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.40 to 0.60	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	4.00		
	5.00		
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	> 550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
NOTE			
1.	Compression Molded		
2.	168 h / 110°C		

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