

Synres-Almoco EP 3505

Epoxy; Epoxide

Synres-Almoco BV

Message:

Glass-fibre reinforced epoxy moulding compound

Good mechanical strength, very good electrical isolation properties and dimensional stability even at high temperatures

Primary application(s): Connectors, Thermocouples, Sensors, Resistors, Potentiometers

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	Connectors
	Electrical Parts
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	1.90 to 2.10	g/cm ³	ISO 1183
Apparent Density	0.85 to 1.00	g/cm ³	ISO 60
Molding Shrinkage - Flow	0.30 to 0.50	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Post Shrinkage ¹	< 0.050	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000 to 18000	MPa	ISO 527-2
Tensile Stress	60.0 to 70.0	MPa	ISO 527-2
Flexural Modulus	14000 to 16000	MPa	ISO 178
Flexural Stress	120 to 140	MPa	ISO 178
Compressive Stress	150 to 200	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.5 to 3.5	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	8.0 to 12	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	170 to 190	°C	ISO 75-2/C
CLTE - Flow (50 to 150°C)	1.5E-5 to 2.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.60 to 0.80	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+15 to 1.0E+16	ohms·cm	IEC 60093
Electric Strength	25 to 35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	7.00		
100 Hz	5.00		
	6.00		
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	> 250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (5.00 mm)	V-0		UL 94
Glow Wire Flammability Index	900	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	900	°C	IEC 60695-2-13
NOTE			
1.	168 h / 110°C		

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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



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