

Synres-Almoco EP 3536

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): Wirewound inductors, transformers
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	Electrical Parts
Agency Ratings	EU 2002/96/EC (WEEE)
	EU 2006/122/EC
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Compression Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.95 to 2.05	g/cm ³	ISO 1183
Apparent Density	0.95 to 1.10	g/cm ³	ISO 60
Molding Shrinkage - Flow	0.40 to 0.60	%	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 18000	MPa	ISO 178
Flexural Stress	120 to 140	MPa	ISO 178
Compressive Stress	200 to 250	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.5 to 2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	6.0 to 8.0	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
1.8 MPa, Unannealed	120 to 140	°C	ISO 75-2/A
8.0 MPa, Unannealed	100 to 120	°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	0.50 to 0.70	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13 to 1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14 to 1.0E+15	ohms·cm	IEC 60093
Electric Strength	25 to 35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	6.00		
100 Hz	4.00		
	6.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	0.020 to 0.030		
1 MHz	0.010 to 0.020		
Arc Resistance	PLC 4		ASTM D495
Comparative Tracking Index	> 250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Tested by RASCHIG)	HB		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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