Synres-Almoco AMC 2568

Thermoset Polyester

Synres-Almoco BV

Message:

Glass-fibre reinforced Polyester moulding compound
Very good mechanical strength, very good electrical properties and dimensional stability, suitable for solder baths - heat resistant up to 500°C for a short time, excellent processability with very short cycle times, low mould wear
Primary application(s): Connectors, Bobbins, Housings, Mounting plates
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	Fast Molding Cycle Good Dimensional Stability Good Electrical Properties Good Processability Good Strength
Uses	Bobbins Connectors Housings
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	2.00 to 2.20	g/cm³	ISO 1183
Apparent Density	0.80 to 0.95	g/cm³	ISO 60
Molding Shrinkage - Flow [1]	0.25 to 0.45	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.30	%	ISO 62
Post Shrinkage [2]	< 0.050	%	ISO 2577
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2
Compression Molded	6000 to 9000	MPa	
Injection Molded	13000 to 15000	MPa	
Tensile Stress			ISO 527-2

Compression Molded	35.0 to 60.0	MPa	
Injection Molded	60.0 to 70.0	MPa	
Flexural Modulus			ISO 178
Compression Molded	8000 to 12000	MPa	
Injection Molded	16000 to 18000	MPa	
Flexural Stress			ISO 178
Compression Molded	80.0 to 100	MPa	
Injection Molded	140 to 160	MPa	
Compressive Stress	120 to 170	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
Compression Molded	4.0 to 5.0	kJ/m^2	
Injection Molded	5.0 to 6.0	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
Compression Molded	5.0 to 10	kJ/m^2	
Injection Molded	15 to 18	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 200	°C	ISO 75-2/A
8.0 MPa, Unannealed	110 to 130	°C	ISO 75-2/C
CLTE - Flow (50 to 100°C)	1.0E-5 to 2.0E-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+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	5.00		
	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	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**

Flame Rating (1.40 mm)	V-0		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	930	°C	IEC 60695-2-13

NOTE	
1.	Compression Molded
2.	168 h / 110°C

Recommended distributors for this material

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