Synres-Almoco AMC 2572

Thermoset Polyester

Synres-Almoco BV

Message:

Glass-fibre reinforced Polyester moulding compound
Very good mechanical strength, very good electrical properties and dimensional stability, good abrasion stability, high flame retardance together with low fume toxicity (RATP approved), outstanding processability - optimised for automatic processing
Primary application(s): Thermostat housings, Switch parts, Relays
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	Flame Retardant Good Abrasion Resistance Good Dimensional Stability Good Electrical Properties Good Processability Good Strength Low Toxicity
Uses	Electrical Parts Housings 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	1.90 to 2.10	g/cm³	ISO 1183
Apparent Density	0.70 to 0.85	g/cm³	ISO 60
Molding Shrinkage - Flow [1]	0.20 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 (Injection Molded)	13000 to 15000	MPa	ISO 527-2
Tensile Stress (Injection Molded)	60.0 to 70.0	MPa	ISO 527-2

Flexural Modulus (Injection Molded)	16000 to 18000	MPa	ISO 178
Flexural Stress (Injection Molded)	140 to 160	MPa	ISO 178
Compressive Stress	100 to 150	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Injection Molded)	5.0 to 6.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (Injection Molded)	14 to 16	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	130 to 150	°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 (1.10 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.	Injection Molded		
2.	168 h / 110°C		

Recommended distributors for this material

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