Synres-Almoco EP 3572

Epoxy; Epoxide

Synres-Almoco BV

Message:

Glass-fibre reinforced epoxy moulding compound
Good mechanical and electrical strength, enhanced elasticity for ensuring good sealing under extreme heat and/or humidity, good chemical resistance, exceptional metal adhesion, very good flame retardance. Suitable for pelleting and preheating
Primary application(s): Embedding metal parts for metallurgical tests
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 Adhesion Good Chemical Resistance Good Strength		
Agency Ratings	EU 2002/96/EC (WEEE) EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Granules		
Processing Method	Resin Transfer Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	2.10 to 2.20	g/cm^3	ISO 1183
Apparent Density	1.00 to 1.15	g/cm^3	ISO 60
Molding Shrinkage - Flow	0.25 to 0.45	%	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	50.0 to 70.0	MPa	ISO 527-2
Flexural Modulus	11000 to 13000	MPa	ISO 178
Flexural Stress	100 to 120	MPa	ISO 178
Compressive Stress	150 to 200	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	2.0 to 3.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength	4.0 to 6.0	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, Unannealed	110 to 130	°C	ISO 75-2/A

8.0 MPa, Unannealed	100 to 120	°C	ISO 75-2/C
CLTE - Flow (50 to 150°C)	1.0E-5 to 4.0E-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	15 to 20	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	> 325	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.700 mm, Tested by RASCHIG)	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		

Recommended distributors for this material

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