

Synres-Almoco AMC 2557

Thermoset Polyester

Synres-Almoco BV

Message:

Glass-fibre reinforced Polyester moulding compound
Very good mechanical strength, very good electrical properties and dimensional stability, exceptional processability with short cycle time and low mould wear.
Primary application(s): Coil encapsulations
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 |
| Agency Ratings | EU 2002/96/EC (WEEE) |
| | EU 2006/122/EC |
| RoHS Compliance | RoHS Compliant |
| Forms | Granules |
| Processing Method | Encapsulating |
| | Injection Molding |
| | Resin Transfer Molding |

| Physical | Nominal Value | Unit | Test Method |
|---------------------------------------|----------------|-------------------|-------------|
| Density | 2.00 to 2.20 | g/cm ³ | ISO 1183 |
| Apparent Density | 0.70 to 0.85 | g/cm ³ | ISO 60 |
| Molding Shrinkage - Flow ¹ | 0.30 to 0.50 | % | 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) | 9000 to 11000 | MPa | ISO 527-2 |
| Tensile Stress (Injection Molded) | 50.0 to 70.0 | MPa | ISO 527-2 |
| Flexural Modulus (Injection Molded) | 16000 to 18000 | MPa | ISO 178 |
| Flexural Stress (Injection Molded) | 130 to 150 | MPa | ISO 178 |
| Compressive Stress | 120 to 170 | MPa | ISO 604 |
| Impact | Nominal Value | Unit | Test Method |

| Charpy Notched Impact Strength (Injection Molded) | 4.0 to 4.5 | kJ/m ² | ISO 179/1eA |
|---|--------------------|-------------------|----------------|
| Charpy Unnotched Impact Strength (Injection Molded) | 13 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 | > 190 | °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 | | |
| Comparative Tracking Index | 600 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.60 mm, Tested by RASCHIG) | 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 | | |

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