

# Synres-Almoco DAIP 6552

Diallyl Phthalate  
Synres-Almoco BV

Message:

Glass-fibre reinforced diallyl isophthalate moulding compound  
Good mechanical strength together with retention of high electrical isolation properties under hot humid conditions, exceptional dimensional stability even under severe environmental conditions  
Primary application(s): Connectors, bobbins, potentiometers, switches  
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                   | Bobbins                    |
|                        | Connectors                 |
|                        | 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                               | 1.80 to 2.00   | g/cm <sup>3</sup> | ISO 1183    |
| Apparent Density                      | 0.70 to 0.85   | g/cm <sup>3</sup> | ISO 60      |
| Molding Shrinkage - Flow <sup>1</sup> | 0.20 to 0.45   | %                 | ISO 2577    |
| Water Absorption (23°C, 24 hr)        | < 0.20         | %                 | ISO 62      |
| Post Shrinkage <sup>2</sup>           | < 0.050        | %                 | ISO 2577    |
| Mechanical                            | Nominal Value  | Unit              | Test Method |
| Tensile Modulus (Injection Molded)    | 6000 to 8000   | MPa               | ISO 527-2   |
| Tensile Stress (Injection Molded)     | 60.0 to 80.0   | MPa               | ISO 527-2   |
| Flexural Modulus (Injection Molded)   | 10000 to 15000 | MPa               | ISO 178     |
| Flexural Stress (Injection Molded)    | 120 to 150     | MPa               | ISO 178     |
| Compressive Stress                    | 150 to 200     | MPa               | ISO 604     |
| Impact                                | Nominal Value  | Unit              | Test Method |

| Charpy Notched Impact Strength (Injection Molded)   | 2.5 to 4.0         | kJ/m <sup>2</sup> | ISO 179/1eA    |
|-----------------------------------------------------|--------------------|-------------------|----------------|
| Charpy Unnotched Impact Strength (Injection Molded) | 5.0 to 7.0         | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Thermal                                             | Nominal Value      | Unit              | Test Method    |
| Heat Deflection Temperature (8.0 MPa, Unannealed)   | > 200              | °C                | ISO 75-2/C     |
| CLTE - Flow (50 to 100°C)                           | 5.0E-5 to 6.0E-5   | cm/cm/°C          | ISO 11359-2    |
| Thermal Conductivity                                | 0.40 to 0.60       | W/m/K             | ASTM E1461     |
| Electrical                                          | Nominal Value      | Unit              | Test Method    |
| Surface Resistivity                                 | 1.0E+14 to 1.0E+15 | 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      |
|                                                     | 5.00               |                   |                |
| 100 Hz                                              | 4.00               |                   |                |
|                                                     | 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                          | > 550              | V                 | IEC 60112      |
| Flammability                                        | Nominal Value      | Unit              | Test Method    |
| Glow Wire Flammability Index                        | 960                | °C                | IEC 60695-2-12 |
| Glow Wire Ignition Temperature                      | 960                | °C                | IEC 60695-2-13 |
| NOTE                                                |                    |                   |                |
| 1.                                                  | Injection Molded   |                   |                |
| 2.                                                  | 168 h / 110°C      |                   |                |

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