

# VITAMIDE® AR12

Polyamide 66

A. Schulman Europe

Message:

VITAMIDE® AR12 is a Polyamide 66 (Nylon 66) material filled with 10% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of VITAMIDE® AR12 are:

Flame Rated

RoHS Compliant

| General Information                     |                                  |       |             |
|-----------------------------------------|----------------------------------|-------|-------------|
| Filler / Reinforcement                  | Glass Fiber,10% Filler by Weight |       |             |
| RoHS Compliance                         | RoHS Compliant                   |       |             |
| Processing Method                       | Injection Molding                |       |             |
| Physical                                | Nominal Value                    | Unit  | Test Method |
| Density                                 | 1.20                             | g/cm³ | ISO 1183    |
| Molding Shrinkage                       | 0.45                             | %     |             |
| Mechanical                              | Nominal Value                    | Unit  | Test Method |
| Tensile Stress (Yield)                  | 115                              | MPa   | ISO 527-2   |
| Tensile Strain (Break)                  | 4.0                              | %     | ISO 527-2   |
| Flexural Modulus                        | 5000                             | MPa   | ISO 178     |
| Flexural Stress                         | 165                              | MPa   | ISO 178     |
| Impact                                  | Nominal Value                    | Unit  | Test Method |
| Notched Izod Impact Strength            | 6.0                              | kJ/m² | ISO 180     |
| Thermal                                 | Nominal Value                    | Unit  | Test Method |
| Heat Deflection Temperature             |                                  |       |             |
| 0.45 MPa, Unannealed                    | > 220                            | °C    | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | > 210                            | °C    | ISO 75-2/A  |
| Melting Temperature (DSC)               | 255                              | °C    | ISO 3146    |
| Electrical                              | Nominal Value                    | Unit  | Test Method |
| Surface Resistivity                     | 1.0E+14                          | ohms  | IEC 60093   |
| Electric Strength (2.00 mm)             | 34                               | kV/mm | IEC 60243-1 |
| Comparative Tracking Index (Solution A) | > 600                            | V     | IEC 60112   |
| Flammability                            | Nominal Value                    | Unit  | Test Method |
| Flame Rating                            | HB                               |       | UL 94       |

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