

# VITAMIDE® AS10

Polyamide 66  
A. Schulman Europe

Message:

VITAMIDE® AS10 is a Polyamide 66 (Nylon 66) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of VITAMIDE® AS10 are:

Flame Rated

RoHS Compliant

| General Information                     |                   |                   |                |
|-----------------------------------------|-------------------|-------------------|----------------|
| UL YellowCard                           | E132739-546981    |                   |                |
| RoHS Compliance                         | RoHS Compliant    |                   |                |
| Processing Method                       | Injection Molding |                   |                |
| Physical                                | Nominal Value     | Unit              | Test Method    |
| Density                                 | 1.13              | g/cm <sup>3</sup> | ISO 1183       |
| Molding Shrinkage                       | 1.5               | %                 |                |
| Mechanical                              | Nominal Value     | Unit              | Test Method    |
| Tensile Stress (Yield)                  | 85.0              | MPa               | ISO 527-2      |
| Tensile Strain (Break)                  | 40                | %                 | ISO 527-2      |
| Flexural Modulus                        | 2900              | MPa               | ISO 178        |
| Flexural Stress                         | 105               | MPa               | ISO 178        |
| Impact                                  | Nominal Value     | Unit              | Test Method    |
| Notched Izod Impact Strength            | 5.0               | kJ/m <sup>2</sup> | ISO 180        |
| Thermal                                 | Nominal Value     | Unit              | Test Method    |
| Heat Deflection Temperature             |                   |                   |                |
| 0.45 MPa, Unannealed                    | 223               | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                     | 80.0              | °C                | ISO 75-2/A     |
| Melting Temperature (DSC)               | 260               | °C                | ISO 3146       |
| Electrical                              | Nominal Value     | Unit              | Test Method    |
| Surface Resistivity                     | 1.0E+15           | ohms              | IEC 60093      |
| Electric Strength (2.00 mm)             | 27                | kV/mm             | IEC 60243-1    |
| Comparative Tracking Index (Solution A) | 600               | V                 | IEC 60112      |
| Flammability                            | Nominal Value     | Unit              | Test Method    |
| Flame Rating                            | V-2               |                   | UL 94          |
| Glow Wire Ignition Temperature          | 850               | °C                | IEC 60695-2-13 |

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