

# VAMPLEN 1027 V2

Polypropylene Homopolymer  
Vamp Tech

Message:

UL 94 V2 at 1,6 mm, homopolymer, 10% mineral filled, halogen free, excellent dimensional stability, RoHS.

| General Information                                     |                              |       |                         |
|---------------------------------------------------------|------------------------------|-------|-------------------------|
| Filler / Reinforcement                                  | Mineral,10% Filler by Weight |       |                         |
| Features                                                | Good Dimensional Stability   |       |                         |
|                                                         | Halogen Free                 |       |                         |
|                                                         | Homopolymer                  |       |                         |
| RoHS Compliance                                         | RoHS Compliant               |       |                         |
| Physical                                                | Nominal Value                | Unit  | Test Method             |
| Specific Gravity                                        | 1.02                         | g/cm³ | ASTM D792               |
| Molding Shrinkage                                       |                              |       | ASTM D955               |
| Flow                                                    | 1.1                          | %     |                         |
| Across Flow                                             | 1.1                          | %     |                         |
| Water Absorption (Saturation)                           | 0.020                        | %     | ASTM D570               |
| Mechanical                                              | Nominal Value                | Unit  | Test Method             |
| Tensile Modulus                                         | 2000                         | MPa   | ASTM D638               |
| Tensile Strength (Yield)                                | 30.0                         | MPa   | ASTM D638               |
| Tensile Elongation (Break)                              | > 20                         | %     | ASTM D638               |
| Impact                                                  | Nominal Value                | Unit  | Test Method             |
| Notched Izod Impact Strength                            | 2.5                          | kJ/m² | ISO 180/A               |
| Unnotched Izod Impact Strength                          | 30                           | kJ/m² | ISO 180                 |
| Thermal                                                 | Nominal Value                | Unit  | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 65.0                         | °C    | ASTM D648A              |
| Vicat Softening Temperature                             | 100                          | °C    | ASTM D1525 <sup>1</sup> |
| RTI Elec                                                | 90.0                         | °C    | UL 746                  |
| RTI Imp                                                 | 90.0                         | °C    | UL 746                  |
| RTI Str                                                 | 90.0                         | °C    | UL 746                  |
| Electrical                                              | Nominal Value                | Unit  | Test Method             |
| Comparative Tracking Index                              | 600                          | V     | IEC 60112               |
| Flammability                                            | Nominal Value                | Unit  | Test Method             |
| Flame Rating                                            |                              |       | UL 94                   |
| 1.60 mm                                                 | V-2                          |       |                         |
| 3.20 mm                                                 | V-2                          |       |                         |
| Injection                                               | Nominal Value                | Unit  |                         |

|                        |      |    |
|------------------------|------|----|
| Drying Temperature     | 70.0 | °C |
| Drying Time            | 3.0  | hr |
| Processing (Melt) Temp | 210  | °C |
| Mold Temperature       | 60.0 | °C |

NOTE

1.
- Loading 2 (50 N)

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