

# VAMPTER 0023 V0

Polybutylene Terephthalate

Vamp Tech

Message:

UL 94 V0, PBDE - PBDF free, excellent dimensional stability, good mechanical properties.

| General Information                                     |                            |                   |                         |
|---------------------------------------------------------|----------------------------|-------------------|-------------------------|
| UL YellowCard                                           | E140692-223044             |                   |                         |
| Features                                                | Good Dimensional Stability |                   |                         |
| Physical                                                | Nominal Value              | Unit              | Test Method             |
| Specific Gravity                                        | 1.45                       | g/cm <sup>3</sup> | ASTM D792               |
| Molding Shrinkage                                       |                            |                   | ASTM D955               |
| Flow                                                    | 1.8                        | %                 |                         |
| Across Flow                                             | 1.8                        | %                 |                         |
| Water Absorption (Saturation)                           | 0.10                       | %                 | ASTM D570               |
| Mechanical                                              | Nominal Value              | Unit              | Test Method             |
| Tensile Modulus                                         | 2400                       | MPa               | ASTM D638               |
| Tensile Strength (Yield)                                | 40.0                       | MPa               | ASTM D638               |
| Tensile Elongation (Break)                              | > 10                       | %                 | ASTM D638               |
| Impact                                                  | Nominal Value              | Unit              | Test Method             |
| Notched Izod Impact Strength                            | 4.5                        | kJ/m <sup>2</sup> | ISO 180/A               |
| Unnotched Izod Impact Strength                          | 30                         | kJ/m <sup>2</sup> | ISO 180                 |
| Thermal                                                 | Nominal Value              | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 65.0                       | °C                | ASTM D648A              |
| Vicat Softening Temperature                             | 180                        | °C                | ASTM D1525 <sup>1</sup> |
| RTI Elec                                                | 100                        | °C                | UL 746                  |
| RTI Imp                                                 | 100                        | °C                | UL 746                  |
| RTI Str                                                 | 100                        | °C                | UL 746                  |
| Flammability                                            | Nominal Value              |                   | Test Method             |
| Flame Rating                                            |                            |                   | UL 94                   |
| 0.800 mm                                                | V-0                        |                   |                         |
| 1.60 mm                                                 | V-0                        |                   |                         |
| 3.20 mm                                                 | V-0                        |                   |                         |
| Injection                                               | Nominal Value              | Unit              |                         |
| Drying Temperature                                      | 100                        | °C                |                         |
| Drying Time                                             | 3.0                        | hr                |                         |
| Processing (Melt) Temp                                  | 250                        | °C                |                         |
| Mold Temperature                                        | 80.0                       | °C                |                         |
| NOTE                                                    |                            |                   |                         |

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