

# VAMPALLOY 0023 V0 UV

Acrylonitrile Butadiene Styrene

Vamp Tech

Message:

UL 94 V0, very good fluidity, very good surface appearance, very good UV resistance, PBDE - PBDF free.

| General Information                                     |                     |                   |                         |
|---------------------------------------------------------|---------------------|-------------------|-------------------------|
| Features                                                | Good Flow           |                   |                         |
|                                                         | Good Surface Finish |                   |                         |
|                                                         | Good UV Resistance  |                   |                         |
| Physical                                                | Nominal Value       | Unit              | Test Method             |
| Specific Gravity                                        | 1.21                | g/cm <sup>3</sup> | ASTM D792               |
| Molding Shrinkage                                       |                     |                   | ASTM D955               |
| Flow                                                    | 0.80                | %                 |                         |
| Across Flow                                             | 0.90                | %                 |                         |
| Mechanical                                              | Nominal Value       | Unit              | Test Method             |
| Tensile Modulus                                         | 2300                | MPa               | ASTM D638               |
| Tensile Strength (Yield)                                | 30.0                | MPa               | ASTM D638               |
| Tensile Elongation (Break)                              | > 5.0               | %                 | ASTM D638               |
| Impact                                                  | Nominal Value       | Unit              | Test Method             |
| Notched Izod Impact Strength                            | 13                  | kJ/m <sup>2</sup> | ISO 180/A               |
| Unnotched Izod Impact Strength                          | 50                  | kJ/m <sup>2</sup> | ISO 180                 |
| Thermal                                                 | Nominal Value       | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 70.0                | °C                | ASTM D648A              |
| Vicat Softening Temperature                             | 85.0                | °C                | ASTM D1525 <sup>1</sup> |
| RTI Elec                                                | 70.0                | °C                | UL 746                  |
| RTI Imp                                                 | 70.0                | °C                | UL 746                  |
| RTI Str                                                 | 70.0                | °C                | UL 746                  |
| Flammability                                            | Nominal Value       |                   | Test Method             |
| Flame Rating                                            |                     |                   | UL 94                   |
| 1.60 mm                                                 | V-0                 |                   |                         |
|                                                         | V-0                 |                   |                         |
| 3.20 mm                                                 | 5VA                 |                   |                         |
| Injection                                               | Nominal Value       | Unit              |                         |
| Drying Temperature                                      | 60.0                | °C                |                         |
| Drying Time                                             | 3.0                 | hr                |                         |

|                        |                  |    |
|------------------------|------------------|----|
| Processing (Melt) Temp | 200              | °C |
| Mold Temperature       | 50.0             | °C |
| NOTE                   |                  |    |
| 1.                     | Loading 2 (50 N) |    |

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