

# VAMPCARB 1028 V0

Polycarbonate  
Vamp Tech

Message:  
UL 94 V0, halogen free, 10% glass fiber reinforced, good mechanical properties.

| General Information                                     |                                  |                   |                         |
|---------------------------------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Glass Fiber,10% Filler by Weight |                   |                         |
| Features                                                | Halogen Free                     |                   |                         |
| Physical                                                | Nominal Value                    | Unit              | Test Method             |
| Specific Gravity                                        | 1.25                             | g/cm <sup>3</sup> | ASTM D792               |
| Molding Shrinkage                                       |                                  |                   | ASTM D955               |
| Flow                                                    | 0.50                             | %                 |                         |
| Across Flow                                             | 0.60                             | %                 |                         |
| Water Absorption (Saturation)                           | 0.15                             | %                 | ASTM D570               |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method             |
| Tensile Modulus                                         | 3800                             | MPa               | ASTM D638               |
| Tensile Strength (Yield)                                | 65.0                             | MPa               | ASTM D638               |
| Tensile Elongation (Break)                              | 3.5                              | %                 | ASTM D638               |
| Impact                                                  | Nominal Value                    | Unit              | Test Method             |
| Notched Izod Impact Strength                            | 9.0                              | 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) | 120                              | °C                | ASTM D648A              |
| Vicat Softening Temperature                             | 135                              | °C                | ASTM D1525 <sup>1</sup> |
| RTI Elec                                                | 120                              | °C                | UL 746                  |
| RTI Imp                                                 | 120                              | °C                | UL 746                  |
| RTI Str                                                 | 120                              | °C                | UL 746                  |
| Flammability                                            | Nominal Value                    |                   | Test Method             |
| Flame Rating                                            |                                  |                   | UL 94                   |
| 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                                  | 290                              | °C                |                         |
| Mold Temperature                                        | 110                              | °C                |                         |
| NOTE                                                    |                                  |                   |                         |
| 1.                                                      | Loading 2 (50 N)                 |                   |                         |

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