

# DENYL 6 5040

Polyamide 6

Vamp Tech

Message:

PA 6, 50% mixed elastomer and glass fiber filled, not Flame Retardant compound, very good mechanical properties.

| General Information                                     |                                  |                   |                         |
|---------------------------------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Glass Fiber,50% Filler by Weight |                   |                         |
| Additive                                                | Impact Modifier                  |                   |                         |
| Features                                                | Impact Modified                  |                   |                         |
| Physical                                                | Nominal Value                    | Unit              | Test Method             |
| Specific Gravity                                        | 1.49                             | g/cm <sup>3</sup> | ASTM D792               |
| Molding Shrinkage                                       |                                  |                   | ASTM D955               |
| Flow                                                    | 0.20                             | %                 |                         |
| Across Flow                                             | 0.50                             | %                 |                         |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method             |
| Tensile Modulus                                         | 11500                            | MPa               | ASTM D638               |
| Tensile Strength (Yield)                                | 130                              | MPa               | ASTM D638               |
| Tensile Elongation (Break)                              | 3.0                              | %                 | ASTM D638               |
| Impact                                                  | Nominal Value                    | Unit              | Test Method             |
| Notched Izod Impact Strength                            | 18                               | kJ/m <sup>2</sup> | ISO 180/A               |
| Unnotched Izod Impact Strength                          | 60                               | kJ/m <sup>2</sup> | ISO 180                 |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 205                              | °C                | ASTM D648A              |
| Vicat Softening Temperature                             | 200                              | °C                | ASTM D1525 <sup>1</sup> |
| RTI Elec                                                | 120                              | °C                | UL 746                  |
| RTI Imp                                                 | 120                              | °C                | UL 746                  |
| RTI Str                                                 | 120                              | °C                | UL 746                  |
| Injection                                               | Nominal Value                    | Unit              |                         |
| Drying Temperature                                      | 90.0                             | °C                |                         |
| Drying Time                                             | 3.0                              | hr                |                         |
| Processing (Melt) Temp                                  | 260                              | °C                |                         |
| Mold Temperature                                        | 100                              | °C                |                         |
| NOTE                                                    |                                  |                   |                         |

1. Loading 2 (50 N)

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