

# BESTNYL SE60VI01AH

Polyamide 66

Triesa Plastics

Message:

Polyamide 6.6 natural lubrified with 60% glass fibre reinforcement and heat stabilized, High performance material for secure or critical pieces that require high mechanical properties.

| General Information                                |                                  |                   |                 |
|----------------------------------------------------|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                             | Glass Fiber,60% Filler by Weight |                   |                 |
| Additive                                           | Heat Stabilizer                  |                   |                 |
|                                                    | Lubricant                        |                   |                 |
| Features                                           | Heat Stabilized                  |                   |                 |
|                                                    | Lubricated                       |                   |                 |
| Appearance                                         | Natural Color                    |                   |                 |
| Forms                                              | Pellets                          |                   |                 |
| Physical                                           | Nominal Value                    | Unit              | Test Method     |
| Density                                            | 1.70                             | g/cm <sup>3</sup> | ISO 1183        |
| Water Absorption (23°C, 24 hr)                     | 0.50                             | %                 | ISO 62          |
| Ash Content                                        | 60                               | %                 | Internal Method |
| Humidity - Pellets                                 | 0.20                             | %                 | ISO 1110        |
| Hardness                                           | Nominal Value                    | Unit              | Test Method     |
| Shore Hardness (Shore D)                           | 83                               |                   |                 |
| Mechanical                                         | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus                                    | 16000                            | MPa               | ISO 527-2       |
| Tensile Stress                                     | 260                              | MPa               | ISO 527-2       |
| Tensile Strain (Break)                             | 2.0                              | %                 | ISO 527-2       |
| Impact                                             | Nominal Value                    | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)              | 17                               | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength (23°C)            | 95                               | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                            | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 255                              | °C                | ISO 75-2/B      |
| Vicat Softening Temperature                        | > 260                            | °C                | ISO 306         |
| Electrical                                         | Nominal Value                    | Unit              | Test Method     |
| Surface Resistivity                                | 1.0E+15                          | ohms              | IEC 60093       |
| Electric Strength                                  | 35                               | kV/mm             | IEC 60243-1     |
| Comparative Tracking Index                         | 450                              | V                 | IEC 60112       |
| Flammability                                       | Nominal Value                    | Unit              | Test Method     |
| Burning Rate                                       | < 100                            | mm/min            | FMVSS 302       |

| Flame Rating           | HB            | UL 94 |
|------------------------|---------------|-------|
| Injection              | Nominal Value | Unit  |
| Drying Temperature     | 100           | °C    |
| Drying Time            | 2.0 to 4.0    | hr    |
| Processing (Melt) Temp | 275 to 290    | °C    |
| Mold Temperature       | 90.0 to 100   | °C    |

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