

# BESTNYL SI00VI02BX

Polyamide 6

Triesa Plastics

Message:

Polyamide 6 black lubrified with V-0 quality, is characterized for good flame retardant quality and injection behaviour.

| General Information                     |                   |                   |                |
|-----------------------------------------|-------------------|-------------------|----------------|
| Additive                                | Flame Retardant   |                   |                |
|                                         | Lubricant         |                   |                |
| Features                                | Flame Retardant   |                   |                |
|                                         | Lubricated        |                   |                |
| Appearance                              | Black             |                   |                |
| Forms                                   | Pellets           |                   |                |
| Processing Method                       | Injection Molding |                   |                |
| Physical                                | Nominal Value     | Unit              | Test Method    |
| Density                                 | 1.30              | g/cm <sup>3</sup> | ISO 1183       |
| Water Absorption (23°C, 24 hr)          | 1.5               | %                 | ISO 62         |
| Humidity - Pellets                      | 0.20              | %                 | ISO 1110       |
| Hardness                                | Nominal Value     | Unit              | Test Method    |
| Shore Hardness (Shore D)                | 77                |                   | ISO 868        |
| Mechanical                              | Nominal Value     | Unit              | Test Method    |
| Tensile Modulus                         | 2800              | MPa               | ISO 527-2      |
| Tensile Stress                          | 65.0              | MPa               | ISO 527-2      |
| Tensile Strain (Break)                  | 10                | %                 | ISO 527-2      |
| Impact                                  | Nominal Value     | Unit              | Test Method    |
| Charpy Notched Impact Strength (23°C)   | 7.0               | kJ/m <sup>2</sup> | ISO 179        |
| Charpy Unnotched Impact Strength (23°C) | No Break          |                   | ISO 179        |
| Thermal                                 | Nominal Value     | Unit              | Test Method    |
| Heat Deflection Temperature             |                   |                   |                |
| 0.45 MPa, Unannealed                    | 175               | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                     | 80.0              | °C                | ISO 75-2/A     |
| Vicat Softening Temperature             | > 210             | °C                | ISO 306        |
| Electrical                              | Nominal Value     | Unit              | Test Method    |
| Comparative Tracking Index              | 300               | V                 | IEC 60112      |
| Flammability                            | Nominal Value     | Unit              | Test Method    |
| Burning Rate                            | < 100             | mm/min            | FMVSS 302      |
| Flame Rating                            | V-0               |                   | UL 94          |
| Glow Wire Ignition Temperature          | 960               | °C                | IEC 60695-2-13 |

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 100           | °C   |
| Drying Time            | 2.0 to 4.0    | hr   |
| Processing (Melt) Temp | 225 to 240    | °C   |
| Mold Temperature       | 50.0 to 60.0  | °C   |

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