

# BESTNYL ABP70U/02

Polyamide 6 + ABS

Triesa Plastics

## Message:

Polyamide and ABS black (PA/ABS) with stabilized UV, is a PA/ABS specifically used for any pieces that requires a protection against ultra violet rays, is recommended for external pieces or in contact with external atmospheric agents.

| General Information                     |                    |                   |             |
|-----------------------------------------|--------------------|-------------------|-------------|
| Additive                                | UV Stabilizer      |                   |             |
| Features                                | Good UV Resistance |                   |             |
| Appearance                              | Black              |                   |             |
| Forms                                   | Pellets            |                   |             |
| Processing Method                       | Injection Molding  |                   |             |
| Physical                                | Nominal Value      | Unit              | Test Method |
| Density                                 | 1.09               | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                       | 1.0                | %                 | ISO 294-4   |
| Water Absorption (23°C, 24 hr)          | 1.0                | %                 | ISO 62      |
| Humidity - Pellets                      | 0.20               | %                 | ISO 1110    |
| Hardness                                | Nominal Value      | Unit              | Test Method |
| Shore Hardness (Shore D)                | 78                 |                   | ISO 868     |
| Mechanical                              | Nominal Value      | Unit              | Test Method |
| Tensile Modulus                         | 2200               | MPa               | ISO 527-2   |
| Tensile Stress                          | 45.0               | MPa               | ISO 527-2   |
| Tensile Strain (Break)                  | > 50               | %                 | ISO 527-2   |
| Impact                                  | Nominal Value      | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)   | 15                 | 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                    | 90.0               | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 65.0               | °C                | ISO 75-2/A  |
| Vicat Softening Temperature             | 160                | °C                | ISO 306     |
| Electrical                              | Nominal Value      | Unit              | Test Method |
| Surface Resistivity                     | 1.0E+13            | ohms              | IEC 60093   |
| Electric Strength                       | 40                 | kV/mm             | IEC 60243-1 |
| 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 | 220 to 240   | °C |
| Mold Temperature       | 60.0 to 80.0 | °C |

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