

# PENTAMID B S L H black

Polyamide 6  
PENTAC Polymer GmbH

Message:  
Low viscosity, impact modified, heat stabilised polyamide 6

| General Information                     |          |                                                           |                    |              |
|-----------------------------------------|----------|-----------------------------------------------------------|--------------------|--------------|
| Additive                                |          | Impact modifier<br>heat stabilizer                        |                    |              |
| Features                                |          | Impact modification<br>Low viscosity<br>Thermal Stability |                    |              |
| Agency Ratings                          |          | EC 1907/2006 (REACH)                                      |                    |              |
| Appearance                              |          | Black                                                     |                    |              |
| Forms                                   |          | Particle                                                  |                    |              |
| Processing Method                       |          | Injection molding                                         |                    |              |
| Physical                                | Dry      | Conditioned                                               | Unit               | Test Method  |
| Density                                 | 1.10     | --                                                        | g/cm <sup>3</sup>  | ISO 1183     |
| Molding Shrinkage                       |          |                                                           |                    | ISO 294-4    |
| Transverse flow                         | 2.0      | --                                                        | %                  | ISO 294-4    |
| Flow                                    | 1.8      | --                                                        | %                  | ISO 294-4    |
| Water Absorption                        |          |                                                           |                    | ISO 62       |
| Saturated, 23°C                         | 8.8      | --                                                        | %                  | ISO 62       |
| Equilibrium, 23°C, 50% RH               | 2.4      | --                                                        | %                  | ISO 62       |
| Viscosity Number                        | 130      | --                                                        | cm <sup>3</sup> /g | ISO 307      |
| Mechanical                              | Dry      | Conditioned                                               | Unit               | Test Method  |
| Tensile Modulus                         | 2410     | 1050                                                      | MPa                | ISO 527-2/1  |
| Tensile Stress (Yield)                  | 73.0     | 45.0                                                      | MPa                | ISO 527-2/50 |
| Tensile Strain (Yield)                  | 4.3      | 13                                                        | %                  | ISO 527-2/50 |
| Impact                                  | Dry      | Conditioned                                               | Unit               | Test Method  |
| Charpy Notched Impact Strength (23°C)   | 10       | 25                                                        | kJ/m <sup>2</sup>  | ISO 179/1eA  |
| Charpy Unnotched Impact Strength (23°C) | No Break | No Break                                                  |                    | ISO 179/1eU  |
| Thermal                                 | Dry      | Conditioned                                               | Unit               | Test Method  |
| Heat Deflection Temperature             |          |                                                           |                    |              |
| 0.45 MPa, not annealed                  | 170      | --                                                        | °C                 | ISO 75-2/B   |

|                             |                      |             |       |             |
|-----------------------------|----------------------|-------------|-------|-------------|
| 1.8 MPa, not annealed       | 60.0                 | --          | °C    | ISO 75-2/A  |
| Melting Temperature         | 223                  | --          | °C    | ISO 11357-3 |
| Electrical                  | Dry                  | Conditioned | Unit  | Test Method |
| Dielectric Strength         | 32                   | --          | kV/mm | IEC 60243-1 |
| Dielectric Constant (1 MHz) | 3.50                 | --          |       | IEC 60250   |
| Comparative Tracking Index  | 575                  | --          | V     | IEC 60112   |
| Flammability                | Dry                  | Conditioned | Unit  | Test Method |
| Flame Rating                |                      |             |       | UL 94       |
| 1.6 mm                      | HB                   | --          |       | UL 94       |
| 3.2 mm                      | HB                   | --          |       | UL 94       |
| Additional Information      | Dry                  | Conditioned |       | Test Method |
| ISO Shortname               | PA6-I, MHRC, 12-020  | --          |       | ISO 1874    |
| Injection                   | Dry                  | Unit        |       |             |
| Drying Temperature          | 70                   |             | °C    |             |
| Drying Time                 | 3.0                  |             | hr    |             |
| Suggested Max Moisture      | 0.10 - 0.18          |             | %     |             |
| Suggested Max Regrind       | 20                   |             | %     |             |
| Rear Temperature            | 255 - 275            |             | °C    |             |
| Middle Temperature          | 260 - 285            |             | °C    |             |
| Front Temperature           | 265 - 275            |             | °C    |             |
| Processing (Melt) Temp      | 250 - 290            |             | °C    |             |
| Mold Temperature            | 60 - 100             |             | °C    |             |
| Injection Pressure          | 55.0                 |             | MPa   |             |
| Screw L/D Ratio             | 18.0:1.0 to 22.0:1.0 |             |       |             |
| Screw Compression Ratio     | 2.2:1.0 to 2.8:1.0   |             |       |             |

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