

# PENTAMID B GK30 H LS black

Polyamide 6

PENTAC Polymer GmbH

## Message:

Normal viscosity, heat stabilised polyamide 6,30% glass bead reinforced, laser markable

| General Information                     |      |                                   |                    |             |
|-----------------------------------------|------|-----------------------------------|--------------------|-------------|
| Filler / Reinforcement                  |      | Glass beads, 30% filler by weight |                    |             |
| Additive                                |      | heat stabilizer                   |                    |             |
| Features                                |      | Laser marking                     |                    |             |
|                                         |      | Thermal Stability                 |                    |             |
| Agency Ratings                          |      | EC 1907/2006 (REACH)              |                    |             |
| Appearance                              |      | Black                             |                    |             |
| Forms                                   |      | Particle                          |                    |             |
| Processing Method                       |      | Injection molding                 |                    |             |
| Physical                                | Dry  | Conditioned                       | Unit               | Test Method |
| Density                                 | 1.36 | --                                | g/cm <sup>3</sup>  | ISO 1183    |
| Molding Shrinkage                       |      |                                   |                    | ISO 294-4   |
| Transverse flow                         | 0.80 | --                                | %                  | ISO 294-4   |
| Flow                                    | 0.80 | --                                | %                  | ISO 294-4   |
| Water Absorption                        |      |                                   |                    | ISO 62      |
| Saturated, 23°C                         | 6.5  | --                                | %                  | ISO 62      |
| Equilibrium, 23°C, 50% RH               | 2.1  | --                                | %                  | ISO 62      |
| Viscosity Number                        | 145  | --                                | cm <sup>3</sup> /g | ISO 307     |
| Mechanical                              | Dry  | Conditioned                       | Unit               | Test Method |
| Tensile Modulus                         | 4300 | 2150                              | MPa                | ISO 527-2/1 |
| Tensile Stress (Break)                  | 75.0 | 50.0                              | MPa                | ISO 527-2/5 |
| Tensile Strain (Break)                  | 8.0  | > 25                              | %                  | ISO 527-2/5 |
| Impact                                  | Dry  | Conditioned                       | Unit               | Test Method |
| Charpy Notched Impact Strength (23°C)   | 6.0  | 9.0                               | kJ/m <sup>2</sup>  | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 50   | > 100                             | kJ/m <sup>2</sup>  | ISO 179/1eU |
| Thermal                                 | Dry  | Conditioned                       | Unit               | Test Method |
| Heat Deflection Temperature             |      |                                   |                    |             |
| 0.45 MPa, not annealed                  | 185  | --                                | °C                 | ISO 75-2/B  |
| 1.8 MPa, not annealed                   | 70.0 | --                                | °C                 | ISO 75-2/A  |
| Melting Temperature                     | 222  | --                                | °C                 | ISO 11357-3 |

| Electrical                  | Dry                        | Conditioned | Unit  | Test Method |
|-----------------------------|----------------------------|-------------|-------|-------------|
| Dielectric Strength         | 30                         | --          | kV/mm | IEC 60243-1 |
| Dielectric Constant (1 MHz) | 3.80                       | --          |       | IEC 60250   |
| Comparative Tracking Index  | 500                        | --          | 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, MHR, 14-040 N, GB30 X | --          |       | ISO 1874    |
| Injection                   | Dry                        | Unit        |       |             |
| Drying Temperature          | 80                         |             | °C    |             |
| Drying Time                 | 3.0                        |             | hr    |             |
| Suggested Max Moisture      | 0.050 - 0.13               |             | %     |             |
| Suggested Max Regrind       | 20                         |             | %     |             |
| Rear Temperature            | 260 - 280                  |             | °C    |             |
| Middle Temperature          | 265 - 290                  |             | °C    |             |
| Front Temperature           | 270 - 280                  |             | °C    |             |
| Processing (Melt) Temp      | 255 - 295                  |             | °C    |             |
| Mold Temperature            | 60 - 100                   |             | °C    |             |
| Injection Pressure          | 71.5                       |             | 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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