

# PENTALLOY BP (HV) H black

Polyamide 6 + PP  
PENTAC Polymer GmbH

Message:  
High viscosity PA6+PP-alloy (extrusion grade), unreinforced, heat stabilised, resistant to corrosion

| General Information              |                           |             |                   |              |
|----------------------------------|---------------------------|-------------|-------------------|--------------|
| Additive                         | heat stabilizer           |             |                   |              |
| Features                         | Good corrosion resistance |             |                   |              |
|                                  | Thermal Stability         |             |                   |              |
|                                  | Viscosity, High           |             |                   |              |
| Agency Ratings                   | EC 1907/2006 (REACH)      |             |                   |              |
| Appearance                       | Black                     |             |                   |              |
| Forms                            | Particle                  |             |                   |              |
| Processing Method                | Extrusion                 |             |                   |              |
| Physical                         | Dry                       | Conditioned | Unit              | Test Method  |
| Density                          | 1.04                      | --          | g/cm <sup>3</sup> | ISO 1183     |
| Molding Shrinkage                |                           |             |                   | ISO 294-4    |
| Transverse flow                  | 1.9                       | --          | %                 | ISO 294-4    |
| Flow                             | 1.4                       | --          | %                 | ISO 294-4    |
| Water Absorption                 |                           |             |                   | ISO 62       |
| Saturated, 23°C                  | 4.5                       | --          | %                 | ISO 62       |
| Equilibrium, 23°C, 50% RH        | 1.3                       | --          | %                 | ISO 62       |
| Mechanical                       | Dry                       | Conditioned | Unit              | Test Method  |
| Tensile Modulus                  | 2700                      | 1800        | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)           | 60.0                      | 45.0        | MPa               | ISO 527-2/50 |
| Tensile Strain                   |                           |             |                   |              |
| Yield                            | 4.5                       | 9.1         | %                 | ISO 527-2/50 |
| Fracture                         | 28                        | > 40        | %                 | ISO 527-2/5  |
| Impact                           | Dry                       | Conditioned | Unit              | Test Method  |
| Charpy Notched Impact Strength   |                           |             |                   | ISO 179/1eA  |
| -30°C                            | 6.0                       | --          | kJ/m <sup>2</sup> | ISO 179/1eA  |
| 23°C                             | 11                        | 23          | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy Unnotched Impact Strength |                           |             |                   | ISO 179/1eU  |
| -30°C                            | No Break                  | --          |                   | ISO 179/1eU  |
| 23°C                             | No Break                  | No Break    |                   | ISO 179/1eU  |
| Thermal                          | Dry                       | Conditioned | Unit              | Test Method  |

|                             |              |             |    |             |
|-----------------------------|--------------|-------------|----|-------------|
| Heat Deflection Temperature |              |             |    |             |
| 0.45 MPa, not annealed      | 140          | --          | °C | ISO 75-2/B  |
| 1.8 MPa, not annealed       | 80.0         | --          | °C | ISO 75-2/A  |
| Melting Temperature         | 222          | --          | °C | ISO 11357-3 |
| Flammability                | Dry          | Conditioned |    | Test Method |
| Flame Rating                |              |             |    | UL 94       |
| 1.6 mm                      | HB           | --          |    | UL 94       |
| 3.2 mm                      | HB           | --          |    | UL 94       |
| Extrusion                   | Dry          | Unit        |    |             |
| Drying Temperature          | 80           |             |    | °C          |
| Drying Time                 | 4.0          |             |    | hr          |
| Suggested Max Moisture      | 0.050 - 0.13 |             |    | %           |
| Cylinder Zone 1 Temp.       | 245 - 260    |             |    | °C          |
| Cylinder Zone 2 Temp.       | 250 - 265    |             |    | °C          |
| Cylinder Zone 3 Temp.       | 255 - 270    |             |    | °C          |
| Cylinder Zone 4 Temp.       | 260 - 270    |             |    | °C          |
| Cylinder Zone 5 Temp.       | 265          |             |    | °C          |
| Melt Temperature            | 240 - 280    |             |    | °C          |

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