

# PENTAMID L GV30 H RC MOS schwarz

Polyamide 12  
PENTAC Polymer GmbH

Message:  
Normal viscosity, 30% short glass fiber reinforced polyamide 12, heat stabilised, Recompound, modified with MoS2

| General Information                  |      |                                                                                                                                           |                    |             |
|--------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|
| Filler / Reinforcement               |      | Glass fiber reinforced material, 30% filler by weight                                                                                     |                    |             |
| Additive                             |      | Molybdenum disulfide lubricant (1%)<br>heat stabilizer                                                                                    |                    |             |
| Recycled Content                     |      | Yes                                                                                                                                       |                    |             |
| Features                             |      | Good dimensional stability<br>Low friction coefficient<br>Rigidity, high<br>Good flexibility<br>Good wear resistance<br>Thermal Stability |                    |             |
| Uses                                 |      | Bearing                                                                                                                                   |                    |             |
| Agency Ratings                       |      | EC 1907/2006 (REACH)                                                                                                                      |                    |             |
| Appearance                           |      | Black                                                                                                                                     |                    |             |
| Forms                                |      | Particle                                                                                                                                  |                    |             |
| Physical                             | Dry  | Conditioned                                                                                                                               | Unit               | Test Method |
| Density                              | 1.28 | --                                                                                                                                        | g/cm <sup>3</sup>  | ISO 1183    |
| Molding Shrinkage                    |      |                                                                                                                                           |                    | ISO 294-4   |
| Vertical flow direction              | 0.50 | --                                                                                                                                        | %                  | ISO 294-4   |
| Flow direction                       | 0.40 | --                                                                                                                                        | %                  | ISO 294-4   |
| Water Absorption                     |      |                                                                                                                                           |                    | ISO 62      |
| Saturated, 23°C                      | 0.70 | --                                                                                                                                        | %                  | ISO 62      |
| Equilibrium, 23°C, 50% RH            | 0.40 | --                                                                                                                                        | %                  | ISO 62      |
| Viscosity Number                     | 160  | --                                                                                                                                        | cm <sup>3</sup> /g | ISO 307     |
| Hardness                             | Dry  | Conditioned                                                                                                                               | Unit               | Test Method |
| Ball Indentation Hardness (H 961/30) | 130  | --                                                                                                                                        | MPa                | ISO 2039-1  |
| Mechanical                           | Dry  | Conditioned                                                                                                                               | Unit               | Test Method |
| Tensile Modulus                      | 4200 | 3600                                                                                                                                      | MPa                | ISO 527-2/1 |
| Tensile Stress (Break)               | 60.0 | 50.0                                                                                                                                      | MPa                | ISO 527-2   |
| Tensile Strain (Break)               | 9.0  | 12                                                                                                                                        | %                  | ISO 527-2   |
| Impact                               | Dry  | Conditioned                                                                                                                               | Unit               | Test Method |

|                                         |      |             |                   |             |
|-----------------------------------------|------|-------------|-------------------|-------------|
| Charpy Notched Impact Strength (23°C)   | 14   | 16          | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 65   | 75          | kJ/m <sup>2</sup> | 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                   | 135  | --          | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)               | 178  | --          | °C                | ISO 3146    |
| Electrical                              | Dry  | Conditioned | Unit              | Test Method |
| Dielectric Strength (1.00 mm)           | 18   | --          | kV/mm             | IEC 60243-1 |
| Relative Permittivity (1 MHz)           | 3.40 | --          |                   | IEC 60250   |
| Comparative Tracking Index              | 400  | --          | V                 | IEC 60112   |
| Flammability                            | Dry  | Conditioned | Unit              | Test Method |
| Flame Rating                            |      |             |                   | UL 94       |
| 1.60 mm                                 | HB   | --          |                   | UL 94       |
| 3.20 mm                                 | HB   | --          |                   | UL 94       |

#### Additional Information

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ISO Description: PA12, MHRCS, 16-040, GF30+X1The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

调节后的  
ISO Description: PA12, MHRCS, 16-040, GF30+X1

|                         |                    |      |  |
|-------------------------|--------------------|------|--|
| Injection               | Dry                | Unit |  |
| Drying Temperature      | 80.0               | °C   |  |
| Drying Time             | 3.0                | hr   |  |
| Suggested Max Moisture  | 0.030              | %    |  |
| Suggested Max Regrind   | 20                 | %    |  |
| Rear Temperature        | 245 - 270          | °C   |  |
| Middle Temperature      | 260 - 275          | °C   |  |
| Front Temperature       | 260 - 270          | °C   |  |
| Processing (Melt) Temp  | 265                | °C   |  |
| Mold Temperature        | 80.0               | °C   |  |
| Injection Pressure      | 65.0               | MPa  |  |
| Holding Pressure        | 39.0               | MPa  |  |
| Screw L/D Ratio         | 20.0:1.0           |      |  |
| Screw Compression Ratio | 2.2:1.0 to 2.8:1.0 |      |  |

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