

PENTAMID AB MA30T H grau 7035/1

Polyamide 66/6 Copolymer

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 66+6, 30% mineral filled, good surfaces, special coloration

| General Information | | | | |
|---|---|-------------|--------------------|-------------|
| Filler / Reinforcement | Mineral filler, 30% filler by weight | | | |
| Additive | heat stabilizer | | | |
| Features | Thermal Stability Excellent appearance | | | |
| Uses | Shell | | | |
| Agency Ratings | EC 1907/2006 (REACH) | | | |
| Appearance | Grey | | | |
| Forms | Particle | | | |
| Physical | Dry | Conditioned | Unit | Test Method |
| Density | 1.36 | -- | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | | ISO 294-4 |
| Vertical flow direction | 0.85 | -- | % | ISO 294-4 |
| Flow direction | 0.70 | -- | % | ISO 294-4 |
| Water Absorption | | | | ISO 62 |
| Saturated, 23°C | 5.9 | -- | % | ISO 62 |
| Equilibrium, 23°C, 50% RH | 1.8 | -- | % | ISO 62 |
| Viscosity Number | 140 | -- | cm ³ /g | ISO 307 |
| Hardness | Dry | Conditioned | Unit | Test Method |
| Ball Indentation Hardness (H 961/30) | 180 | -- | MPa | ISO 2039-1 |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 5900 | 3000 | MPa | ISO 527-2/1 |
| Tensile Stress (Break) | 75.0 | 55.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 4.0 | 11 | % | ISO 527-2 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 5.0 | 11 | kJ/m ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 40 | 65 | kJ/m ² | ISO 179/1eU |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Heat Deflection Temperature | | | | |
| 0.45 MPa, not annealed | 200 | -- | °C | ISO 75-2/B |

| | | | | |
|-------------------------------|------------|--------------------|-------------|--------------------|
| 1.8 MPa, not annealed | 110 | -- | °C | ISO 75-2/A |
| Melting Temperature (DSC) | 255 | -- | °C | ISO 3146 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Dielectric Strength (1.00 mm) | 29 | -- | kV/mm | IEC 60243-1 |
| Relative Permittivity (1 MHz) | 3.50 | -- | | IEC 60250 |
| Comparative Tracking Index | 475 | -- | 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

干燥
ISO Description: PA66+PA6, MHRC, 14-060 N, MD30The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

调节后的
ISO Description: PA66+PA6, MHRC, 14-060 N, MD30

| | | | |
|-------------------------|--------------------|-------------|-----|
| Injection | Dry | Unit | |
| Drying Temperature | 80.0 | | °C |
| Drying Time | 3.0 | | hr |
| Suggested Max Moisture | 0.090 | | % |
| Suggested Max Regrind | 20 | | % |
| Rear Temperature | 255 - 275 | | °C |
| Middle Temperature | 275 - 290 | | °C |
| Front Temperature | 275 - 285 | | °C |
| Processing (Melt) Temp | 275 | | °C |
| Mold Temperature | 80.0 | | °C |
| Injection Pressure | 65.0 | | MPa |
| Holding Pressure | 35.8 | | 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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