# PENTAMID AB MK30 E H schwarz

Polyamide 66/6 Copolymer

PENTAC Polymer GmbH

## Message:

Normal viscosity, heat stabilised polyamide 66+6, 30% mineral filled, impact modified

| General Information | |
|---|---|
| Filler / Reinforcement | Mineral filler, 30% filler by weight |
| Additive | Impact modifier<br>heat stabilizer |
| Features | Impact modification<br>Thermal Stability |
| Uses | Shell |
| Agency Ratings | EC 1907/2006 (REACH) |
| Appearance | Black |
| Forms | Particle |

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density | 1.36 | -- | g/cm³ | ISO 1183 |
| Molding Shrinkage | | | | ISO 294-4 |
| Vertical flow direction | 0.80 | -- | % | ISO 294-4 |
| Flow direction | 0.75 | -- | % | ISO 294-4 |
| Water Absorption | | | | ISO 62 |
| Saturated, 23°C | 5.7 | -- | % | ISO 62 |
| Equilibrium, 23°C, 50% RH | 1.7 | -- | % | ISO 62 |
| Viscosity Number | 140 | -- | cm³/g | ISO 307 |
| **Hardness** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Ball Indentation Hardness (H 961/30) | 165 | -- | MPa | ISO 2039-1 |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus | 3900 | 1500 | MPa | ISO 527-2/1 |
| Tensile Stress (Break) | 61.0 | 45.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 18 | 25 | % | ISO 527-2 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (23°C) | 16 | 25 | kJ/m² | 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 | 185 | -- | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | 90.0 | -- | °C | ISO 75-2/A |
| Melting Temperature (DSC) | 255 | -- | °C | ISO 3146 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Dielectric Strength (1.00 mm) | 30 | -- | kV/mm | IEC 60243-1 |
| Relative Permittivity (1 MHz) | 3.40 | -- | | IEC 60250 |
| Comparative Tracking Index | 525 | -- | V | IEC 60112 |
| Flammability | Dry | Conditioned | Unit | Test Method |
| Flame Rating (3.20 mm) | HB | -- | | UL 94 |

Additional Information

干燥
ISO Description: PA66+PA6, MHRC, 14-040 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, 14-040 N, MD30Tensile Strain at Break, ISO 527: >25%

| Injection | Dry | Unit |
|---|---|---|
| Drying Temperature | 80.0 | °C |
| Drying Time | 3.0 | hr |
| Suggested Max Moisture | 0.080 | % |
| Suggested Max Regrind | 20 | % |
| Rear Temperature | 260 - 280 | °C |
| Middle Temperature | 275 - 290 | °C |
| Front Temperature | 275 - 280 | °C |
| Processing (Melt) Temp | 275 | °C |
| Mold Temperature | 80.0 | °C |
| Injection Pressure | 78.0 | MPa |
| Holding Pressure | 46.8 | MPa |
| Screw L/D Ratio | 20.0:1.0 | |
| Screw Compression Ratio | 2.2:1.0 to 2.8:1.0 | |



Recommended distributors for this material

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