

PENTAMID A SK H

PA66

Pentac Polymer GmbH

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|-------------------|--------------------|----------------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 1.8 / * | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 1.8 / * | % | ISO 294-4, 2577 |
| Mechanical properties | | | |
| ISO Data | | | |
| Tensile Modulus | 3200 / 1250 | MPa | ISO 527 |
| Yield stress | 90 / 55 | MPa | ISO 527 |
| Yield strain | 4 / 15 | % | ISO 527 |
| Flexural modulus, 23°C | 3200 / - | MPa | ISO 178 |
| Flexural strength | 120 / - | MPa | ISO 178 |
| Charpy impact strength, +23°C | N / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 4 / 12 | kJ/m ² | ISO 179/1eA |
| Thermal properties | | | |
| ISO Data | | | |
| Melting temperature, 10°C/min | 260 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | 75 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 220 / * | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 1.6 / * | mm | - |
| Other properties | | | |
| ISO Data | | | |
| Water absorption | 7.8 / * | % | Sim. to ISO 62 |
| Humidity absorption | 2.6 / * | % | Sim. to ISO 62 |
| Density | 1130 / - | kg/m ³ | ISO 1183 |
| Material specific properties | | | |
| ISO Data | | | |
| Viscosity number | 140 / * | cm ³ /g | ISO 307, 1157, 1628 |
| Processing Recommendation Injection Molding | | | |
| Value | | | |
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 3 | h | - |
| Processing humidity | ≤0.13 | % | - |
| Mold temperature | 60 - 100 | °C | - |
| Feed temperature | 80 | °C | - |
| Zone 1 | 270 | °C | - |
| Zone 2 | 280 | °C | - |
| Zone 3 | 285 | °C | - |
| Zone 4 | 290 | °C | - |
| Zone 5 | 285 | °C | - |

Characteristics**Processing**

Injection Molding

Certifications

RoHS compliant

Delivery form

Pellets

Applications

Encapsulation

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe

Features

Nucleated