

KOPA® KN173HIHS

Polyamide 6

Kolon Plastics, Inc.

Message:

KOPA® KN173HIHS is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

Heat Resistant

Impact Resistant

| General Information | | | |
|--|--|-------------------|-------------|
| Features | Good Impact Resistance High Heat Resistance | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.11 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.5 to 1.8 | % | ASTM D955 |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 1.3 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 115 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 67.0 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 50 | % | ASTM D638 |
| Flexural Modulus (23°C) | 2300 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 108 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 170 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648A |
| 0.45 MPa, Unannealed | 180 | °C | |
| 1.8 MPa, Unannealed | 70.0 | °C | |
| Peak Melting Temperature | 215 | °C | ASTM D3418 |
| CLTE - Flow | 9.0E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength | 20 | kV/mm | ASTM D149 |
| Dielectric Constant (1 MHz) | 3.20 | | ASTM D150 |
| Arc Resistance | 125 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |

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