

KN 173ST

Poly amide 6 compounded resin,
High Viscosity & Impact strength & Super toughness

| TEST ITEM | ASTM | UNIT | VALUE | |
|---|-------------------------|------|-------------------------------|----------|
| Physical Property | | | | |
| Specific Gravity | 23°C | D792 | - | 1.07 |
| Water Absorption | | D570 | % | 1.0 |
| Mold Shrinkage | 23°C | D955 | % | 1.3- 1.6 |
| Mechanical Property | | | | |
| Tensile Strength | 23°C | D638 | Kg/ cm ² | 215 |
| Tensile Elongation | 23°C | D638 | % | 220 |
| Flexural Strength | 23°C | D790 | Kg/ cm ² | 112 |
| Flexural Modulus | 23°C | D790 | Kg/ cm ² | 2,730 |
| Impact Strength (Izod Notch) | 23°C | D256 | Kg • cm/cm | 90 |
| Hardness (Rockwell) | | D785 | R scale | 110 |
| Thermal Property | | | | |
| Melting Point | | D789 | °C | 215 |
| Coefficient of Linear Thermal Expansion | | D696 | cm/cm/ °C(X10 ⁻⁴) | 0.9 |
| Heat Distortion Temperature | | D648 | °C | 160 |
| | 4.6kg/ cm ² | | °C | 54.5 |
| | 18.6kg/ cm ² | | °C | 54.5 |
| Flammability | | UL94 | UL 94 | HB |
| Electrical Property | | | | |
| Arc Resistance | 23°C | D495 | sec | 125 |
| Dielectric Constant | 23°C | D150 | 10 ⁶ Hz | 3.2 |
| Dielectric Strength | 23°C | D149 | KV/mm | 20 |

Remark: The information provided in this data sheet is based on Kolon's knowledge and test method, therefore it can not be used as guaranteed specification limits.