

## Kolon KOPAA® KN132G15VO G/F Reinforced Flame Retardant Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Fiber Filled, Flame Retardant

### Material Notes:

KOPAA® is a thermoplastic resin with excellent mechanical, thermal and electrical properties and is widely used in automobile and industrial parts. Good mechanical properties, outstanding self-lubrication and abrasion resistance, excellent chemical resistance, wide usage temperature, good impact absorbing characteristics. Information provided by US distributor, API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-KOPA-KN132G15VO-GF-Reinforced-Flame-Retardant-Nylon-6.php](http://www.lookpolymers.com/polymer_Kolon-KOPA-KN132G15VO-GF-Reinforced-Flame-Retardant-Nylon-6.php)

| Physical Properties   | Metric                | English                   | Comments             |
|-----------------------|-----------------------|---------------------------|----------------------|
| Density               | 1.30 g/cc             | 0.0470 lb/in <sup>3</sup> | DIN 53479; ASTM D792 |
| Water Absorption      | 0.70 %                | 0.70 %                    | DIN 53475; ASTM D570 |
| Linear Mold Shrinkage | 0.0070 - 0.0080 cm/cm | 0.0070 - 0.0080 in/in     | ASTM D955            |

| Mechanical Properties      | Metric     | English       | Comments             |
|----------------------------|------------|---------------|----------------------|
| Hardness, Rockwell R       | 120        | 120           | DIN 53505; ASTM D785 |
| Tensile Strength, Ultimate | 118 MPa    | 17100 psi     | DIN 53455; ASTM D638 |
| Elongation at Break        | 5.0 %      | 5.0 %         | DIN 53455; ASTM D638 |
| Flexural Yield Strength    | 157 MPa    | 22800 psi     | DIN 53455; ASTM D790 |
| Flexural Modulus           | 5.88 GPa   | 853 ksi       | DIN 53452; ASTM D790 |
| Izod Impact, Notched       | 0.588 J/cm | 1.10 ft-lb/in | DIN 53453; ASTM D256 |

| Thermal Properties                             | Metric                                     | English                                   | Comments             |
|------------------------------------------------|--------------------------------------------|-------------------------------------------|----------------------|
| CTE, linear                                    | 80.0 Âµm/m-Â°C<br>@Temperature 20.0<br>Â°C | 44.4 Âµin/in-Â°F<br>@Temperature 68.0 Â°F | DIN 53752; ASTM D696 |
| Melting Point                                  | 220 Â°C                                    | 428 Â°F                                   | DIN 53736; ASTM D789 |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 205 Â°C                                    | 401 Â°F                                   | DIN 53461; ASTM D648 |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 195 Â°C                                    | 383 Â°F                                   | DIN 53461; ASTM D648 |
| Flammability, UL94                             | V-0                                        | V-0                                       |                      |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | <sup>3.8</sup><br>Metric | <sup>3.8</sup><br>English | Comments            |
|-----------------------|--------------------------|---------------------------|---------------------|
|                       | @Frequency 1e+6 Hz       | @Frequency 1e+6 Hz        | ASTM D149/DIN 53483 |
| Dielectric Strength   | 21.0 kV/mm               | 533 kV/in                 | ASTM D149/DIN 53481 |
| Arc Resistance        | 130 sec                  | 130 sec                   | ASTM D495           |

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