

Kolon KOPA[®] KN333NW High Impact Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Impact -resistant, dimensional safetyApplications Wheel coversInformation provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOPA-KN333NW-High-Impact-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---------------------|---------------------|-----------|
| Specific Gravity | 1.10 g/cc | 1.10 g/cc | ASTM D792 |
| Moisture Absorption at Equilibrium | 1.0 % | 1.0 % | ASTM D570 |
| Linear Mold Shrinkage | 0.016 - 0.019 cm/cm | 0.016 - 0.019 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|---------------|-----------|
| Hardness, Rockwell R | 120 | 120 | ASTM D785 |
| Tensile Strength | 59.0 MPa | 8560 psi | ASTM D638 |
| Elongation at Break | 50 % | 50 % | ASTM D638 |
| Flexural Strength | 98.0 MPa | 14200 psi | ASTM D790 |
| Flexural Modulus | 1.961 GPa | 284.4 ksi | ASTM D790 |
| Izod Impact, Notched | 5.88 J/cm | 11.0 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|------------|
| CTE, linear | 60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Melting Point | 255 $\text{Å}^\circ\text{C}$ | 491 $\text{Å}^\circ\text{F}$ | ASTM D1525 |
| Deflection Temperature at 0.46 MPa (66 psi) | 210 $\text{Å}^\circ\text{C}$ | 410 $\text{Å}^\circ\text{F}$ | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 70.0 $\text{Å}^\circ\text{C}$ | 158 $\text{Å}^\circ\text{F}$ | ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|-----------|
| Dielectric Constant | 3.1 | 3.1 | ASTM D150 |
| Dielectric Strength | 20.0 kV/mm | 508 kV/in | ASTM D149 |
| Arc Resistance | 125 sec | 125 sec | ASTM D495 |

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