

# KOPA® KN136

Polyamide 6  
Kolon Plastics, Inc.

Message:

KOPA® KN136 is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, Latin America, or North America.  
Characteristics include:  
Flame Rated  
Fast Molding Cycle  
Lubricated  
Medium Viscosity

| General Information                          |                    |                   |             |
|----------------------------------------------|--------------------|-------------------|-------------|
| Additive                                     | Lubricant          |                   |             |
| Features                                     | Fast Molding Cycle |                   |             |
|                                              | Medium Viscosity   |                   |             |
| Forms                                        | Pellets            |                   |             |
| Physical                                     | Nominal Value      | Unit              | Test Method |
| Specific Gravity                             | 1.14               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                     | 1.3 to 1.5         | %                 | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 1.8                | %                 | ASTM D570   |
| Hardness                                     | Nominal Value      | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                  | 120                |                   | ASTM D785   |
| Mechanical                                   | Nominal Value      | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)               | 81.0               | MPa               | ASTM D638   |
| Tensile Elongation (Yield, 23°C)             | 35                 | %                 | ASTM D638   |
| Flexural Modulus (23°C)                      | 2740               | MPa               | ASTM D790   |
| Flexural Strength (23°C)                     | 123                | MPa               | ASTM D790   |
| Impact                                       | Nominal Value      | Unit              | Test Method |
| Notched Izod Impact (23°C)                   | 74                 | J/m               | ASTM D256   |
| Thermal                                      | Nominal Value      | Unit              | Test Method |
| Deflection Temperature Under Load            |                    |                   | ASTM D648   |
| 0.45 MPa, Unannealed                         | 180                | °C                |             |
| 1.8 MPa, Unannealed                          | 65.0               | °C                |             |
| Melting Temperature                          | 220                | °C                |             |
| CLTE - Flow                                  | 8.0E-5             | cm/cm/°C          | ASTM D696   |
| Electrical                                   | Nominal Value      | Unit              | Test Method |
| Dielectric Strength                          | 20                 | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)                  | 3.40               |                   | ASTM D150   |
| Arc Resistance                               | 120                | sec               | ASTM D495   |
| Flammability                                 | Nominal Value      | Unit              | Test Method |

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