

# KOPA® KN173HI3RBL

Polyamide 6  
Kolon Plastics, Inc.

Message:

KOPA® KN173HI3RBL is a Polyamide 6 (Nylon 6) product. It can be processed by extrusion and is available in Asia Pacific, Europe, Latin America, or North America.  
Characteristics include:  
Flame Rated  
High Viscosity  
Impact Resistant

| General Information                          |                        |                   |             |
|----------------------------------------------|------------------------|-------------------|-------------|
| Features                                     | Good Impact Resistance |                   |             |
|                                              | High Viscosity         |                   |             |
| Processing Method                            | Extrusion              |                   |             |
| Physical                                     | Nominal Value          | Unit              | Test Method |
| Specific Gravity                             | 1.09                   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                     | 1.3 to 1.6             | %                 | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 1.1                    | %                 | ASTM D570   |
| Hardness                                     | Nominal Value          | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                  | 110                    |                   | ASTM D785   |
| Mechanical                                   | Nominal Value          | Unit              | Test Method |
| Tensile Strength (23°C)                      | 59.0                   | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)             | 250                    | %                 | ASTM D638   |
| Flexural Modulus (23°C)                      | 2060                   | MPa               | ASTM D790   |
| Flexural Strength (23°C)                     | 88.0                   | MPa               | ASTM D790   |
| Impact                                       | Nominal Value          | Unit              | Test Method |
| Notched Izod Impact (23°C)                   | 250                    | J/m               | ASTM D256   |
| Thermal                                      | Nominal Value          | Unit              | Test Method |
| Deflection Temperature Under Load            |                        |                   | ASTM D648A  |
| 0.45 MPa, Unannealed                         | 160                    | °C                |             |
| 1.8 MPa, Unannealed                          | 65.0                   | °C                |             |
| Peak Melting Temperature                     | 215                    | °C                | ASTM D3418  |
| CLTE - Flow                                  | 1.0E-4                 | 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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