

# KOPA® KN133HB40GR

Polyamide 6  
Kolon Plastics, Inc.

Message:

KOPA® KN133HB40GR is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, Latin America, or North America.  
Characteristics include:  
Flame Rated  
Good Dimensional Stability  
Heat Resistant

| General Information                          |                            |                   |             |
|----------------------------------------------|----------------------------|-------------------|-------------|
| Features                                     | Good Dimensional Stability |                   |             |
|                                              | High Heat Resistance       |                   |             |
| Appearance                                   | Grey                       |                   |             |
| Physical                                     | Nominal Value              | Unit              | Test Method |
| Specific Gravity                             | 1.46                       | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                     | 0.10 to 0.30               | %                 | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 0.40                       | %                 | ASTM D570   |
| Hardness                                     | Nominal Value              | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                  | 120                        |                   | ASTM D785   |
| Mechanical                                   | Nominal Value              | Unit              | Test Method |
| Tensile Strength (23°C)                      | 112                        | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)             | 6.5                        | %                 | ASTM D638   |
| Flexural Modulus (23°C)                      | 6700                       | MPa               | ASTM D790   |
| Flexural Strength (23°C)                     | 197                        | MPa               | ASTM D790   |
| Impact                                       | Nominal Value              | Unit              | Test Method |
| Notched Izod Impact (23°C)                   | 49                         | J/m               | ASTM D256   |
| Thermal                                      | Nominal Value              | Unit              | Test Method |
| Deflection Temperature Under Load            |                            |                   | ASTM D648A  |
| 0.45 MPa, Unannealed                         | 210                        | °C                |             |
| 1.8 MPa, Unannealed                          | 203                        | °C                |             |
| Peak Melting Temperature                     | 220                        | °C                | ASTM D3418  |
| CLTE - Flow                                  | 4.0E-5                     | cm/cm/°C          | ASTM D696   |
| Electrical                                   | Nominal Value              | Unit              | Test Method |
| Dielectric Strength                          | 22                         | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)                  | 3.50                       |                   | ASTM D150   |
| Arc Resistance                               | 136                        | sec               | ASTM D495   |
| Flammability                                 | Nominal Value              | Unit              | Test Method |
| Flame Rating                                 | HB                         |                   | UL 94       |

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