

# KOPA® KN333HI5BI1

Polyamide 66  
Kolon Plastics, Inc.

Message:

KOPA® KN333HI5BI1 is a Polyamide 66 (Nylon 66) product. It is available in Asia Pacific, Europe, Latin America, or North America.  
Characteristics include:  
Flame Rated  
Impact Resistant  
Medium Viscosity

| General Information                          |               |                                            |             |
|----------------------------------------------|---------------|--------------------------------------------|-------------|
| Features                                     |               | Good Impact Resistance<br>Medium Viscosity |             |
| Physical                                     | Nominal Value | Unit                                       | Test Method |
| Specific Gravity                             | 1.10          | g/cm <sup>3</sup>                          | ASTM D792   |
| Molding Shrinkage - Flow                     | 1.6 to 1.9    | %                                          | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 1.0           | %                                          | 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)                      | 67.0          | MPa                                        | ASTM D638   |
| Tensile Elongation (Break, 23°C)             | 39            | %                                          | ASTM D638   |
| Flexural Modulus (23°C)                      | 2450          | MPa                                        | ASTM D790   |
| Flexural Strength (23°C)                     | 100           | 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                         | 210           | °C                                         |             |
| 1.8 MPa, Unannealed                          | 70.0          | °C                                         |             |
| Peak Melting Temperature                     | 255           | °C                                         | ASTM D3418  |
| CLTE - Flow                                  | 6.0E-5        | cm/cm/°C                                   | ASTM D696   |
| Electrical                                   | Nominal Value | Unit                                       | Test Method |
| Dielectric Strength                          | 20            | kV/mm                                      | ASTM D149   |
| Dielectric Constant (1 MHz)                  | 3.10          |                                            | ASTM D150   |
| Arc Resistance                               | 125           | sec                                        | ASTM D495   |
| Flammability                                 | Nominal Value | Unit                                       | Test Method |
| Flame Rating                                 | HB            |                                            | UL 94       |

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