

# KOPA® KN1133W

Polyamide 66  
Kolon Plastics, Inc.

Message:

KOPA® KN1133W is a Polyamide 66 (Nylon 66) product. It is available in Asia Pacific, Europe, Latin America, or North America.  
Characteristics include:  
Flame Rated  
Medium Viscosity

| General Information                          |                  |                   |             |
|----------------------------------------------|------------------|-------------------|-------------|
| Features                                     | Medium Viscosity |                   |             |
| Physical                                     | Nominal Value    | Unit              | Test Method |
| Specific Gravity                             | 1.14             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                     | 1.1 to 1.3       | %                 | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 1.3              | %                 | 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)                      | 83.0             | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)             | 60               | %                 | ASTM D638   |
| Flexural Modulus (23°C)                      | 2940             | MPa               | ASTM D790   |
| Flexural Strength (23°C)                     | 128              | MPa               | ASTM D790   |
| Impact                                       | Nominal Value    | Unit              | Test Method |
| Notched Izod Impact (23°C)                   | 69               | J/m               | ASTM D256   |
| Thermal                                      | Nominal Value    | Unit              | Test Method |
| Deflection Temperature Under Load            |                  |                   | ASTM D648A  |
| 0.45 MPa, Unannealed                         | 235              | °C                |             |
| 1.8 MPa, Unannealed                          | 85.0             | °C                |             |
| Peak Melting Temperature                     | 255              | °C                | ASTM D3418  |
| CLTE - Flow                                  | 7.0E-5           | cm/cm/°C          | ASTM D696   |
| Electrical                                   | Nominal Value    | Unit              | Test Method |
| Dielectric Strength                          | 20               | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)                  | 3.30             |                   | ASTM D150   |
| Arc Resistance                               | 128              | sec               | ASTM D495   |
| Flammability                                 | Nominal Value    | Unit              | Test Method |
| Flame Rating                                 | V-2              |                   | UL 94       |

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