

# PROPERTY INFORMATION

KOLON INDUSTRIES INC

# KOPA®

POLYAMIDE-66 RESIN

# KN333G33CR

G/F REINFORCED GRADE

| PROPERTY                                | ASTM METHOD | UNIT                      |                     |     | VALUE    |        |       |           |
|---|-------------|---------------------------|---------------------|-----|----------|--------|-------|-----------|
| <b>MISCELLANEOUS</b>                    |             |                           |                     |     |          |        |       |           |
| SPECIFIC GRAVITY                        | D792        |                           |                     |     | 1.37     |        |       |           |
| WATER ABSORPTION                        | D570        | %                         |                     |     | 0.4      |        |       |           |
| MOLD SHRINKAGE                          | D955        | %                         |                     |     | 0.3      |        |       |           |
| <b>THERMAL</b>                          |             |                           |                     |     |          |        |       |           |
| MELTING POINT                           | D789        | °C                        | °F                  |     | 255      | 491    |       |           |
| HEAT DISTORTION TEMPERATURE             | D648        |                           |                     |     |          |        |       |           |
| 4.6kg.f/cm <sup>3</sup> (0.46 Mpa)      |             | °C                        | °F                  |     | 250      | 482    |       |           |
| 18.6kg.f/cm <sup>3</sup> (1.82 Mpa)     |             | °C                        | °F                  |     | 247      | 477    |       |           |
| COEFFICIENT OF LINEAR THERMAL EXPANSION | D696        | 10 <sup>-4</sup> cm/cm/°C |                     |     | 0.2      |        |       |           |
| FLAMMABILITY                            | UL94        |                           |                     |     | HB       |        |       |           |
| <b>MECHANICAL</b>                       |             |                           |                     |     |          |        |       |           |
| TENSILE STRENGTH                        | 73°F (23°C) | D638                      | kgf/cm <sup>2</sup> | Mpa | psi      | 1,900  | 186   | 27,017    |
| TENSILE ELOGATION                       | 73°F (23°C) | D638                      | %                   |     |          | 5.5    |       |           |
| FLEXURAL STRENGTH                       | 73°F (23°C) | D790                      | kgf/cm <sup>2</sup> | Mpa | psi      | 2,900  | 284   | 41,237    |
| FLEXURAL MODULUS                        | 73°F (23°C) | D790                      | kgf/cm <sup>2</sup> | Mpa | psi      | 93,000 | 9,120 | 1,322,427 |
| IZOD NOTCHED IMPACT STRENGTH            |             | D256                      | kgcm/cm             | J/m | ft.lb/in | 11.0   | 108   | 2.03      |
| HARDNESS ROCKWELL                       | R SCALE     | D785                      | g/cc                |     |          | 121    |       |           |
| <b>ELECTRICAL</b>                       |             |                           |                     |     |          |        |       |           |
| ARC RESISTANCE                          | D495        | sec                       |                     |     | 135      |        |       |           |
| DIELECTRIC CONSTANT                     | D150        | 10 <sup>6</sup> Hz        |                     |     | 3.6      |        |       |           |
| DIELECTRIC STRENGTH                     | D149        | KV/mm                     |                     |     | 21       |        |       |           |

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**API-KOLON**  
Engineering Plastics

333 Enterprise Parkway • Lake Zurich • IL • 60047 • USA  
Phone: 1-847-550-5556 Fax: 1-847-550-5557  
Email: MaxHahn21@hotmail.com