

**KOPA® KN178MT40**

PA6-T40

Kolon Industries

| Processing/Physical Characteristics | Value         | Unit  | Test Standard |
|-------------------------------------|---------------|-------|---------------|
| <b>ASTM Data</b>                    |               |       |               |
| Mold Shrinkage, MD                  | <b>0.0035</b> | mm/mm | ASTM D 955    |

| Mechanical properties       | Value        | Unit | Test Standard |
|-----------------------------|--------------|------|---------------|
| <b>ASTM Data</b>            |              |      |               |
| Tensile Strength            | <b>83</b>    | MPa  | ASTM D 638    |
| Flexural Modulus            | <b>4802</b>  | MPa  | ASTM D 790    |
| Flexural Strength           | <b>127</b>   | MPa  | ASTM D 790    |
| Rockwell Hardness           | <b>R 118</b> | -    | ASTM D 785    |
| Izod Impact notched, 1/8 in | <b>34</b>    | J/m  | ASTM D 256    |

| Thermal properties                   | Value      | Unit  | Test Standard |
|--------------------------------------|------------|-------|---------------|
| <b>ASTM Data</b>                     |            |       |               |
| UL 94 Flame rating                   | <b>HB</b>  | -     | UL 94         |
| Coefficient of Thermal Expansion, MD | <b>40</b>  | E-6/K | ASTM D 696    |
| DTUL @ 66 psi                        | <b>200</b> | °C    | ASTM D 648    |
| DTUL @ 264 psi                       | <b>175</b> | °C    | ASTM D 648    |
| Melting Temperature                  | <b>220</b> | °C    | ASTM D 3418   |

| Electrical properties           | Value      | Unit  | Test Standard |
|---------------------------------|------------|-------|---------------|
| <b>ASTM Data</b>                |            |       |               |
| Dielectric Strength, Short Time | <b>22</b>  | kV/mm | ASTM D 149    |
| Dielectric Constant, 1 MHz      | <b>3.5</b> | -     | ASTM D 150    |
| Arc Resistance                  | <b>130</b> | s     | ASTM D 495    |

| Other properties | Value       | Unit              | Test Standard |
|------------------|-------------|-------------------|---------------|
| Density          | <b>1450</b> | kg/m <sup>3</sup> | ASTM D 792    |

**Characteristics****Applications**

Automotive

**Regional Availability**

North America, Asia Pacific