

**Kocetal® GF105**

POM-GF25

Kolon Industries

| Processing/Physical Characteristics | Value | Unit    | Test Standard |
|-------------------------------------|-------|---------|---------------|
| <b>ASTM Data</b>                    |       |         |               |
| Melt Flow Index, MFI                | 2.6   | g/10min | ASTM D 1238   |
| Mold Shrinkage, MD                  | 0.005 | mm/mm   | ASTM D 955    |

| Mechanical properties       | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| <b>ASTM Data</b>            |       |      |               |
| Tensile Strength            | 120   | MPa  | ASTM D 638    |
| Elongation at Break         | 6     | %    | ASTM D 638    |
| Flexural Modulus            | 7500  | MPa  | ASTM D 790    |
| Flexural Strength           | 175   | MPa  | ASTM D 790    |
| Rockwell Hardness           | M 90  | -    | ASTM D 785    |
| Izod Impact notched, 1/8 in | 50    | J/m  | ASTM D 256    |

| Thermal properties                   | Value | Unit  | Test Standard |
|--------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                     |       |       |               |
| UL 94 Flame rating                   | HB    | -     | UL 94         |
| Coefficient of Thermal Expansion, MD | 25    | E-6/K | ASTM D 696    |
| DTUL @ 66 psi                        | 164   | °C    | ASTM D 648    |
| DTUL @ 264 psi                       | 163   | °C    | ASTM D 648    |
| Melting Temperature                  | 166   | °C    | ASTM D 3418   |

| Electrical properties           | Value | Unit   | Test Standard |
|---------------------------------|-------|--------|---------------|
| <b>ASTM Data</b>                |       |        |               |
| Dielectric Strength, Short Time | 19    | kV/mm  | ASTM D 149    |
| Dissipation Factor, 1 MHz       | 0.006 | -      | ASTM D 150    |
| Surface Resistivity             | >1E15 | Ohm    | ASTM D 257    |
| Volume Resistivity              | 1E14  | Ohm*cm | ASTM D 257    |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1590  | kg/m <sup>3</sup> | ASTM D 792    |

**Characteristics****Regional Availability**

North America, Asia Pacific