KOLON PLASTICS, INC.

# PRODUCT INFORMATION

**Conductive Grade**

# KOCETAL® CF302BK

Kocetal CF302BK is carbon fiber reinforced grade for high stiffness and electrical conductivity.

| Property | Test Method | Units | Value |
|---|---|---|---|
| **Physical** | | | |
| Melt Index | ASTM D1238 | g/10min | 5.5 |
| Specific Gravity | ASTM D792 | - | 1.43 |
| Shrinkage | ASTM D955 | % | 0.9 |
| Water Absorption 23℃, Equilibrium 60%RH | ASTM D570 | % | 0.22 |
| **Thermal** | | | |
| Melting Point | ASTM D1525 | ℃ | 166 |
| Heat Deflection Temperature under Load | ASTM D648 | | |
| HDT/A 0.45 MPa ( 4.6 kg/cm$^2$ ) | | ℃ | 164 |
| HDT/A 1.82 MPa ( 18.6 kg/cm$^2$ ) | | ℃ | 160 |
| Coeff. Of Linear Thermal Expansion | ASTM D696 | × 10$^{-5}$cm/cm·℃ | 6 |
| Flammability | UL 94 | | HB |
| **Mechanical** | | | |
| Tensile Strength 23℃ | ASTM D638 | MPa (kg/cm$^2$) | 105 (1,030) |
| Tensile Elongation 23℃ | ASTM D638 | % | 2.5 |
| Flexural Strength 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 156 (1,530) |
| Flexural Modulus 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 9,780 (95,900) |
| Notched Izod Impact Strength 23℃ | ASTM D256 | J/m (kg·cm/cm) | 3.0 (0.29) |
| Rockwell Hardness M scale | ASTM D785 | - | 87 |
| **Electrical** | | | |
| Surface Resistivity | ASTM D257 | × 10$^3$ Ω | 1 |
| Volume Resistivity | ASTM D257 | × 10$^2$ Ω·cm | 1 |
| Dielectric Strength | ASTM D149 | kV/mm | |
| Dielectric Constant | ASTM D150 | - | |
| Dielectric Dissiparation FactorConstant 10$^6$ Hz | ASTM D150 | - | |

The information provided in this data sheet is based on our present state of knowledge and is estimated by KOLON PLASTICS, Inc. This information should not be used as guaranteeing specification limits. KOLON PLASTICS, Inc. make no warranty and liability in connection with any use of this information.

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