

# KOCETAL® GF302

Acetal (POM) Copolymer

Kolon Plastics, Inc.

## Message:

Kocetal GF302 is glass fiber reinforced grade for high strength and stiffness.

| General Information                         |                   |                   |             |
|---------------------------------------------|-------------------|-------------------|-------------|
| Filler / Reinforcement                      | Glass Fiber       |                   |             |
| Features                                    | Good Stiffness    |                   |             |
|                                             | High Strength     |                   |             |
| RoHS Compliance                             | RoHS Compliant    |                   |             |
| Forms                                       | Pellets           |                   |             |
| Processing Method                           | Injection Molding |                   |             |
| Physical                                    | Nominal Value     | Unit              | Test Method |
| Specific Gravity                            | 1.49              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)   | 13                | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                    | 0.90              | %                 | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60%RH) | 0.20              | %                 | ASTM D570   |
| Hardness                                    | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (M-Scale)                 | 85                |                   | ASTM D785   |
| Mechanical                                  | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)              | 95.0              | MPa               | ASTM D638   |
| Tensile Elongation (Yield, 23°C)            | 7.0               | %                 | ASTM D638   |
| Flexural Modulus (23°C)                     | 4500              | MPa               | ASTM D790   |
| Flexural Strength (23°C)                    | 140               | MPa               | ASTM D790   |
| Impact                                      | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                  | 45                | J/m               | ASTM D256   |
| Thermal                                     | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load           |                   |                   | ASTM D648   |
| 0.45 MPa, Unannealed                        | 164               | °C                |             |
| 1.8 MPa, Unannealed                         | 160               | °C                |             |
| Melting Temperature                         | 166               | °C                |             |
| CLTE - Flow                                 | 6.0E-5            | cm/cm/°C          | ASTM D696   |
| Electrical                                  | Nominal Value     | Unit              | Test Method |
| Surface Resistivity                         | 1.0E+16           | ohms              | ASTM D257   |
| Volume Resistivity                          | 1.0E+14           | ohms · cm         | ASTM D257   |
| Dielectric Strength                         | 19                | kV/mm             | ASTM D149   |
| Dielectric Constant                         | 3.70              |                   | ASTM D150   |

|                            |               |      |             |
|----------------------------|---------------|------|-------------|
| Dissipation Factor (1 MHz) | 6.0E-3        |      | ASTM D150   |
| Flammability               | Nominal Value | Unit | Test Method |
| Flame Rating               | HB            |      | UL 94       |
| Injection                  | Nominal Value | Unit |             |
| Drying Temperature         | 80.0          | °C   |             |
| Drying Time                | 3.0           | hr   |             |
| Suggested Max Regrind      | 30            | %    |             |
| Rear Temperature           | 170 to 190    | °C   |             |
| Middle Temperature         | 190 to 210    | °C   |             |
| Front Temperature          | 200 to 220    | °C   |             |
| Nozzle Temperature         | 200 to 220    | °C   |             |
| Processing (Melt) Temp     | 165 to 220    | °C   |             |
| Mold Temperature           | 70.0 to 120   | °C   |             |
| Injection Pressure         | 68.6 to 118   | MPa  |             |
| Holding Pressure           | 98.1          | MPa  |             |
| Back Pressure              | 1.96 to 4.90  | MPa  |             |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

