KOLON PLASTICS

# KOCETAL® K900

Polyacetal, General Purpose, Injection Molding, Extremely Low Viscosity

| Properties | Measurement condition | Test Method | Unit | Typical value |
|---|---|---|---|---|
| **Physical** | | | | |
| Specific Gravity | | ASTM D792 | - | 1.41 |
| Melt Flow Index | 190 ℃, 2.16 kg | ASTM D1238 | g/10min | 42.0 |
| Shrinkage | | ASTM D955 | % | 1.7-2.3 |
| Water Absorption | 23 ℃, $H_2O$, 24 hr | ASTM D570 | % | 0.22 |
| **Mechanical** | | | | |
| Tensile Strength at Yield (3.2mm) | 10 mm/min | ASTM D638 | MPa | 60 |
| Nominal Strain at Break(3.2mm) | 10 mm/min | ASTM D638 | % | 40 |
| Flexural Strength (3.2mm) | 10 mm/min | ASTM D790 | MPa | 96 |
| Flexural Modulus (3.2mm) | 10 mm/min | ASTM D790 | MPa | 2,700 |
| Izod Impact Strength (6.4mm) | | ASTM D256 | | |
| (Notched) | 23 ℃ | | J/m | 55 |
| | -30 ℃ | | J/m | - |
| Rockwell Hardness | M scale | ASTM D785 | - | 80 |
| **Thermal** | | | | |
| Melting Point | 20 ℃/min | ASTM D1525 | ℃ | 167 |
| Heat Deflection Temperature | 1.8 MPa | ASTM D648 | ℃ | 110 |
| Coefficient of linear expansion | | ASTM D696 | × $10^{-5}$cm/cm · ℃ | 13 |
| Flammability (0.8mm) | | UL94 | Class | HB |
| **Electrical** | | | | |
| Dielectric Strength | | IEC 60243 | kV/mm | 19 |
| Volume Resistivity | | IEC 60093 | Ω · cm | 1X$10^{14}$ |
| Surface Resistivity | | IEC 60093 | Ω/sq | 1X$10^{16}$ |

※ 1Mpa = 10.197162 Kgf/$cm^2$, 1J/m = 0.10197 Kgf · cm/cm, ( Test specimen Thickness )

## Processing Guide (Injection Molding)

| | | | | |
|---|---|---|---|---|
| Drying Temperature(℃) | 80 ~ 90 | (Dehumidifying Dryer) | | |
| Drying Time(hr) | 3 ~ 5 | | | |
| Processing Moisture Contents(%) | ≤ 0.1 | | | |
| Cylinder Temperature(℃) | Nozzle | Front | Middle | Rear |
| | 180 ~ 200 | 180 ~ 200 | 170 ~ 190 | 160 ~ 180 |
| Mold Temperature(℃) | 60 ~ 80 | | | |