KOLON PLASTICS, INC.

# PRODUCT INFORMATION

Glass Fiber Reinforced Grade

# KOPET® KP133G45

Polyester compound resin,
Dimensionally stable, high elastic

| Property | | Test Method | Units | Value |
|---|---|---|---|---|
| **Physical** | | | | |
| Specific Gravity | | ASTM D792 | - | 1.7 |
| Shrinkage | | ASTM D955 | % | 0.2-0.5 |
| Water Absorption | 23℃, Equilibrium 60%RH | ASTM D570 | % | 0.1 |
| **Thermal** | | | | |
| Melting Point | | ASTM D3418 | ℃ | 255 |
| Heat Deflection Temperature under Load | | ASTM D648 | | |
| HDT/A | 0.45 MPa ( 4.6 kg/cm$^2$ ) | | ℃ | 245 |
| HDT/A | 1.82 MPa ( 18.6 kg/cm$^2$ ) | | ℃ | 230 |
| Coeff. Of Linear Thermal Expansion | | ASTM D696 | × 10$^{-4}$cm/cm·℃ | 0.4 |
| Flammability | | UL 94 | | HB |
| **Mechanical** | | | | |
| Tensile Strength | 23℃ | ASTM D638 | MPa (kg/cm$^2$) | 142(1450) |
| Tensile Elongation | 23℃ | ASTM D638 | % | 5 |
| Flexural Strength | 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 226(2300) |
| Flexural Modulus | 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 9316(95000) |
| Notched Izod Impact Strength | 23℃ | ASTM D256 | J/m (kg·cm/cm) | 74(7.5) |
| Rockwell Hardness | R scale | ASTM D785 | g/cc | 119 |
| **Electrical** | | | | |
| Arc Resistance | | ASTM D495 | sec | 125 |
| Dielectric Constant | | ASTM D150 | 10$^6$Hz | 3.9 |
| Dielectric Strength | | ASTM D149 | KV/mm | 25 |

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