

OXPEKK-MG100

PEKK

Oxford Performance Materials

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 40 | g/10min | ASTM D 1238 |
| Temperature | 380 | °C | - |
| Load | 8.4 | kg | - |
| Mold Shrinkage, MD | 0.005 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------------|------|---------------|
| ASTM Data | | | |
| Tensile Modulus | 3450 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 103 | MPa | ASTM D 638 |
| Tensile Strength at Break | 89.6 | MPa | ASTM D 638 |
| Elongation at Yield | 6 | % | ASTM D 638 |
| Elongation at Break | 80 | % | ASTM D 638 |
| Compressive Strength | 103 | MPa | ASTM D 695 |
| Flexural Modulus | 3380 | MPa | ASTM D 790 |
| Rockwell Hardness | M 86 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 48 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--------------------------------------|------------|-------|---------------|
| ASTM Data | | | |
| Coefficient of Thermal Expansion, MD | 77 | E-6/K | ASTM D 696 |
| DTUL @ 264 psi | 141 | °C | ASTM D 648 |
| Melting Temperature | 307 | °C | ASTM D 3418 |
| Glass Transition Temperature | 155 | °C | ASTM E 1356 |

| Electrical properties | Value | Unit | Test Standard |
|---------------------------------|-------------|-------|---------------|
| ASTM Data | | | |
| Dielectric Strength, Short Time | 23.6 | kV/mm | ASTM D 149 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------------|-------------------|---------------|
| Water Absorption, 24hr | 0.2 | % | ASTM D 570 |
| Density | 1280 | kg/m ³ | ASTM D 792 |

Characteristics**Delivery form**

Pellets

Applications

Medical

Features

Amorphous

Regional Availability

North America