

# Pyramid™ PEEK KD2000 Injection Molded Shape

Polyetheretherketone  
Polymics, Ltd.

Message:  
Polyetheretherketone (PEEK) Tube

| General Information                                     |                   |          |             |
|---------------------------------------------------------|-------------------|----------|-------------|
| Processing Method                                       | Injection Molding |          |             |
| Physical                                                | Nominal Value     | Unit     | Test Method |
| Specific Gravity                                        | 1.30              | g/cm³    | ASTM D792   |
| Water Absorption (23°C, 24 hr)                          | 0.50              | %        | ASTM D570   |
| Mechanical                                              | Nominal Value     | Unit     | Test Method |
| Tensile Modulus                                         | 3400              | MPa      | ASTM D638   |
| Tensile Strength                                        | 97.0              | MPa      | ASTM D638   |
| Tensile Elongation (Break)                              | 30                | %        | ASTM D638   |
| Flexural Modulus (143°C)                                | 3400              | MPa      | ASTM D790   |
| Flexural Strength                                       | 145               | MPa      | ASTM D790   |
| Thermal                                                 | Nominal Value     | Unit     | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 150               | °C       | ASTM D648   |
| Melting Temperature                                     | 340               | °C       | DSC         |
| CLTE - Flow                                             | 4.7E-6            | cm/cm/°C | ASTM D696   |
| Electrical                                              | Nominal Value     | Unit     | Test Method |
| Surface Resistivity                                     | 1.0E+14           | ohms     | ASTM D257   |
| Volume Resistivity                                      | 1.0E+14           | ohms·cm  | ASTM D257   |
| Dielectric Strength                                     | 21                | kV/mm    | ASTM D149   |
| Flammability                                            | Nominal Value     | Unit     | Test Method |
| Flame Rating                                            | V-0               |          | UL 94       |
| Oxygen Index                                            | 38                | %        | ASTM D2863  |

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