

# Pyramid™ PEEK KD2250

Polyetheretherketone

Polymics, Ltd.

## Message:

Pyramid™ PEEK KD2250 is a Polyetheretherketone (PEEK) product filled with 30% carbon fiber. It is available in North America.

| General Information                                     |                                   |                   |             |
|---------------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Carbon Fiber,30% Filler by Weight |                   |             |
| Forms                                                   | Pellets                           |                   |             |
| Physical                                                | Nominal Value                     | Unit              | Test Method |
| Specific Gravity                                        | 1.40                              | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption (24 hr)                                | 0.10                              | %                 | ASTM D570   |
| Mechanical                                              | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                                         | 19300                             | MPa               | ASTM D638   |
| Tensile Strength (Break)                                | 221                               | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 2.0                               | %                 | ASTM D638   |
| Flexural Modulus                                        | 17900                             | MPa               | ASTM D790   |
| Flexural Strength (Yield)                               | 338                               | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                           | 75                                | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 316                               | °C                | ASTM D648   |
| Glass Transition Temperature                            | 143                               | °C                | DSC         |
| Melting Temperature                                     | 340                               | °C                | DSC         |
| CLTE - Flow (< 143°C)                                   | 5.2E-6                            | cm/cm/°C          | ASTM D696   |

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