

# Arylmax® K7500CF30

Polyaryletherketone

Polymics, Ltd.

## Message:

Arylmax® K7500CF30 is a Polyaryletherketone (PAEK) 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              | 23000                             | MPa               | ASTM D638   |
| Tensile Strength (Break)     | 260                               | MPa               | ASTM D638   |
| Tensile Elongation (Break)   | 2.3                               | %                 | ASTM D638   |
| Flexural Modulus             | 20000                             | MPa               | ASTM D790   |
| Flexural Strength (Yield)    | 370                               | MPa               | ASTM D790   |
| Thermal                      | Nominal Value                     | Unit              | Test Method |
| Glass Transition Temperature | 170                               | °C                | DSC         |
| Melting Temperature          | 353                               | °C                | DSC         |
| Injection                    | Nominal Value                     | Unit              |             |
| Drying Temperature           | 180                               | °C                |             |
| Drying Time                  | 4.0                               | hr                |             |
| Rear Temperature             | 380                               | °C                |             |
| Middle Temperature           | 380                               | °C                |             |
| Front Temperature            | 380                               | °C                |             |
| Nozzle Temperature           | 380                               | °C                |             |
| Mold Temperature             | 200 to 210                        | °C                |             |
| Injection Rate               | Fast                              |                   |             |
| Screw Compression Ratio      | 2.5:1.0 to 3.5:1.0                |                   |             |

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