

# CALIBRE™ MEGARAD™ 2081-22

Polycarbonate Resin

Trinseo

## Message:

CALIBRE MEGARAD 2081-22 Polycarbonate resin is a high-flow resin designed for injection molded medical parts. It is stabilized to reduce color shift associated with exposure to high energy radiation (gamma or electron-beam). It is available in light purple transparent color designation FC030006.

Main Characteristics:

Stabilized for high-energy radiation

Transparent

Contains mold release

Tested under ISO 10993 and USP

Applications:

Medical applications

| General Information |   |
|---------------------|---|
| Additive            | Mold Release                                      |
| Uses                | Electrical/Electronic Applications                |
|                     | Medical/Healthcare Applications                   |
| Agency Ratings      | ISO 10993 2                                       |
| Appearance          | Clear/Transparent                                 |
| Forms               | Pellets   |
| Processing Method   | Injection Molding                                 |
| Multi-Point Data    | Specific Heat vs. Temperature (ASTM D3417)        |
|                     | Specific Volume vs Temperature (ISO 11403-2)      |
|                     | Tensile Stress vs. Strain (ASTM D638)             |
|                     | Thermal Conductivity vs. Temperature (ASTM E1530) |
|                     | Viscosity vs. Shear Rate (ASTM D3835)             |

| Physical  | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity  | 1.20          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                | 22            | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                                | 0.50 to 0.70  | %                 | ASTM D955   |
| Mechanical  | Nominal Value | Unit              | Test Method |
| Tensile Strength <sup>1</sup>                           |               |                   | ASTM D638   |
| Yield   | 64.1          | MPa               |             |
| Break   | 46.9          | MPa               |             |
| Tensile Elongation <sup>2</sup> (Break)                 | 180           | %                 | ASTM D638   |
| Impact  | Nominal Value | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 750           | J/m               | ASTM D256   |
| Thermal   | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 123           | °C                | ASTM D648   |

| Optical       | Nominal Value | Unit | Test Method |
|---------------|---------------|------|-------------|
| Transmittance | 85.0          | %    | ASTM D1003  |
| NOTE          |               |      |             |
| 1.            | 50 mm/min     |      |             |
| 2.            | 50 mm/min     |      |             |

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