ExxonMobil™ PP9074MED
Polypropylene Random Copolymer

**Product Description**
ExxonMobil™ PP9074MED is a highly clarified random copolymer resin designed for injection molding of medical devices suitable for sterilization by high energy radiation.

**General**
- **Availability**
  - Europe
  - North America
- **Medical Regulatory**
  - DMF 6677
  - ISO 10993-4
  - ISO 10993-5
  - USP 661.1
- **Features**
  - Controlled Rheology
  - E-beam Sterilizable
  - Ethylene Oxide Sterilizable
  - High Clarity
  - Radiation (Gamma) Resistant
  - Radiation Sterilizable
- **Uses**
  - Hypodermic Syringe Parts
  - Labware
  - Medical Packaging
  - Medical/Healthcare Applications
- **Appearance**
  - Natural Color
- **Form(s)**
  - Pellets
- **Processing Method**
  - Injection Molding
- **Revision Date**
  - 09/01/2022

**Physical**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Based On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)</td>
<td>24 g/10 min</td>
<td>24 g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density</td>
<td>0.900 g/cm³</td>
<td>0.900 g/cm³</td>
<td>ExxonMobil Method</td>
</tr>
</tbody>
</table>

**Mechanical**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Based On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength at Yield 2.0 in/min (51 mm/min)</td>
<td>4390 psi</td>
<td>30.3 MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Elongation at Yield (2.0 in/min (51 mm/min))</td>
<td>13 %</td>
<td>13 %</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))</td>
<td>16500 psi</td>
<td>1140 MPa</td>
<td>ASTM D790A</td>
</tr>
</tbody>
</table>

**Impact**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Based On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notched Izod Impact (73°F (23°C))</td>
<td>1.2 ft·lb/in</td>
<td>62 J/m</td>
<td>ASTM D256A</td>
</tr>
<tr>
<td>Gardner Impact 73°F (23°C), 0.125 in (3.18 mm), Geometry GC</td>
<td>235 in·lb</td>
<td>26.6 J</td>
<td>ASTM D5420</td>
</tr>
</tbody>
</table>

**Optical**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Based On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haze 3</td>
<td>8.90 %</td>
<td>8.90 %</td>
<td>ASTM D1003</td>
</tr>
</tbody>
</table>

**Legal Statement**
Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

**Notes**
- Typical properties: these are not to be construed as specifications.
- 1 Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.
- 2 This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.
- 3 0.04 in injection molded plaque