

## Product Datasheet



# ExxonMobil™ PP6014MED

## Polypropylene Homopolymer

### Product Description

ExxonMobil™ PP6014MED is a homo-polymer resin that meets certified requirements for use in Medical and Pharmaceutical applications.

### General

|                           |                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Asia Pacific</li> <li>North America</li> </ul>                                                                               |
| Medical Regulatory        | <ul style="list-style-type: none"> <li>ISO 10993-10</li> <li>ISO 10993-11</li> <li>ISO 10993-4</li> <li>ISO 10993-5</li> <li>USP Class VI</li> </ul>                |
| Features                  | <ul style="list-style-type: none"> <li>Autoclave Sterilizable</li> <li>Ethylene Oxide Sterilizable</li> <li>Low Extractables</li> <li>Steam Sterilizable</li> </ul> |
| Uses                      | <ul style="list-style-type: none"> <li>Labware</li> <li>Medical Packaging</li> <li>Medical/Healthcare Applications<sup>2</sup></li> </ul>                           |
| Appearance                | <ul style="list-style-type: none"> <li>Natural Color</li> </ul>                                                                                                     |
| Form(s)                   | <ul style="list-style-type: none"> <li>Pellets</li> </ul>                                                                                                           |
| Processing Method         | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>                                                                                                 |
| Revision Date             | <ul style="list-style-type: none"> <li>09/28/2023</li> </ul>                                                                                                        |

| Physical                                  | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|-------------------------------------------|-------------------------|-------------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 14 g/10 min             | 14 g/10 min             | ASTM D1238        |
| Density                                   | 0.900 g/cm <sup>3</sup> | 0.900 g/cm <sup>3</sup> | ExxonMobil Method |

| Mechanical                                                  | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield<br>2.0 in/min (51 mm/min)         | 5010 psi                | 34.5 MPa           | ASTM D638     |
| Elongation at Yield (2.0 in/min (51 mm/min))                | 9.4 %                   | 9.4 %              | ASTM D638     |
| Flexural Modulus - 1% Secant<br>(0.051 in/min (1.3 mm/min)) | 208000 psi              | 1430 MPa           | ASTM D790A    |

| Impact                            | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------------|-------------------------|--------------------|---------------|
| Notched Izod Impact (73°F (23°C)) | 0.44 ft-lb/in           | 23 J/m             | ASTM D256A    |
| Gardner Impact (73°F (23°C))      | 24.7 in-lb              | 2.79 J             | ASTM D5420    |

| Thermal                                                            | Typical Value (English) | Typical Value (SI) | Test Based On     |
|--------------------------------------------------------------------|-------------------------|--------------------|-------------------|
| Peak Melting Temperature                                           | 322 °F                  | 161 °C             | ExxonMobil Method |
| Deflection Temperature Under Load (DTUL)<br>at 264psi - Unannealed | 131 °F                  | 55.1 °C            | ASTM D648B        |
| Vicat Softening Temperature                                        | 310 °F                  | 154 °C             | ASTM D1525        |

| Optical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---------|-------------------------|--------------------|---------------|
| Haze    | 51.4 %                  | 51.4 %             | ASTM D1003    |

### Legal Statement

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.

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.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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**ExxonMobil****ExxonMobil™ PP6014MED**  
Polypropylene HomopolymerFor additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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