

# ExxonMobil™ PP5722E1

## Polypropylene Homopolymer

### Product Description

A medium flow homopolymer resin designed for mono-oriented products like stretched tapes and monofilament.

### General

|                           |                                               |                                        |
|---------------------------|-----------------------------------------------|----------------------------------------|
| Availability <sup>1</sup> | ▪ Asia Pacific                                |                                        |
| Features                  | ▪ Good Gauge Control<br>▪ Good Processability | ▪ Low Water Carryover<br>▪ Medium Flow |
| Uses                      | ▪ Fabrics<br>▪ Rope                           | ▪ Tape<br>▪ Yarn                       |
| Appearance                | ▪ Natural Color                               |                                        |
| Form(s)                   | ▪ Pellets                                     |                                        |
| Processing Method         | ▪ Extrusion                                   |                                        |
| Revision Date             | ▪ 03/01/2010                                  |                                        |

| Physical                                  | Typical Value (English) | Typical Value (SI)    | Test Based On     |
|-------------------------------------------|-------------------------|-----------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.0 g/10 min            | 4.0 g/10 min          | ASTM D1238        |
| Density                                   | 0.9 g/cm <sup>3</sup>   | 0.9 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)       | 5090 psi                | 35.1 MPa           | ASTM D638     |
| Elongation at Yield (2.0 in/min (51 mm/min))              | 9.8 %                   | 9.8 %              | ASTM D638     |
| Flexural Modulus - 1% Secant<br>0.051 in/min (1.3 mm/min) | 215000 psi              | 1480 MPa           | ASTM D790A    |
| 0.51 in/min (13 mm/min)                                   | 246000 psi              | 1700 MPa           | ASTM D790B    |

| Impact                                                            | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------------------------------------------|-------------------------|--------------------|---------------|
| Notched Izod Impact (73°F (23°C))                                 | 0.74 ft-lb/in           | 40 J/m             | ASTM D256A    |
| Gardner Impact<br>73°F (23°C), 0.125 in (3.18 mm),<br>Geometry GC | 26.9 in-lb              | 3.04 J             | ASTM D5420    |

| Thermal                                                           | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------------------------------------------|-------------------------|--------------------|---------------|
| Deflection Temperature Under Load (DTUL)<br>at 66psi - Unannealed | 200 °F                  | 93.5 °C            | ASTM D648     |

| Hardness          | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------|-------------------------|--------------------|---------------|
| Rockwell Hardness | 106                     | 106                | ASTM D785     |

### 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.

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.

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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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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