

## Product Datasheet



# ExxonMobil™ PP4052E1

## Polypropylene Homopolymer

### Product Description

An easy-processing, high crystallinity, polypropylene homopolymer resin designed primarily for BOPP (biaxially oriented polypropylene) film applications.

### General

|                           |                  |             |        |
|---------------------------|------------------|-------------|--------|
| Availability <sup>1</sup> | ▪ North America  |             |        |
| Uses                      | ▪ Oriented Film  | ▪ Packaging | ▪ Tape |
| Appearance                | ▪ Natural Color  |             |        |
| Form(s)                   | ▪ Pellets        |             |        |
| Processing Method         | ▪ Film Extrusion |             |        |
| Revision Date             | ▪ 06/01/2016     |             |        |

| Physical                                  | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|-------------------------------------------|-------------------------|-------------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 2.0 g/10 min            | 2.0 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)       | 5230 psi                | 36.0 MPa           | ASTM D638     |
| Elongation at Yield (2.0 in/min (51 mm/min))              | 8.3 %                   | 8.3 %              | ASTM D638     |
| Flexural Modulus - 1% Secant<br>0.051 in/min (1.3 mm/min) | 248000 psi              | 1710 MPa           | ASTM D790A    |
| 0.51 in/min (13 mm/min)                                   | 283000 psi              | 1950 MPa           | ASTM D790B    |

| Impact                            | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------------|-------------------------|--------------------|---------------|
| Notched Izod Impact (73°F (23°C)) | 0.80 ft-lb/in           | 43 J/m             | ASTM D256A    |

| Thermal                                                           | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-------------------------------------------------------------------|-------------------------|--------------------|-------------------|
| Melting Temperature                                               | 325 °F                  | 163 °C             | ExxonMobil Method |
| Deflection Temperature Under Load (DTUL)<br>at 66psi - Unannealed | 207 °F                  | 97.0 °C            | ASTM D648         |

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

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