

# ExxonMobil™ PP1304E3

## Polypropylene Homopolymer

### Product Description

A homopolymer resin designed for injection molding applications requiring excellent flow and good mechanical properties. It is designed for caps and closures, general purpose applications such as toys, electric appliances, packaging and thin walled parts.

### General

|                           |                         |                           |                 |
|---------------------------|-------------------------|---------------------------|-----------------|
| Availability <sup>1</sup> | • Africa & Middle East  | • Asia Pacific            |                 |
| Uses                      | • Consumer Applications | • Furniture               | • Packaging     |
|                           | • Crates                | • Industrial Applications | • Tool/Tote Box |
| Appearance                | • Natural Color         |                           |                 |
| Form(s)                   | • Pellets               |                           |                 |
| Processing Method         | • Compounding           | • Injection Molding       |                 |
| Revision Date             | • 03.01.2009            |                           |                 |

| Physical                                  | Typical Value (English) | Typical Value (SI)    | Test Based On     |
|---|-------------------------|-----------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 11 g/10 min             | 11 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 Stress at Yield                      | 4790 psi                | 33.0 MPa           | ISO 527-2/1A/50 |
| Tensile Strain at Yield                      | 9.0 %                   | 9.0 %              | ISO 527-2/1A/50 |
| Tensile Modulus                              | 206000 psi              | 1420 MPa           | ISO 527-2/1A/1  |
| Flexural Modulus (0.079 in/min (2.0 mm/min)) | 193000 psi              | 1330 MPa           | ISO 178         |

| Impact                                       | Typical Value (English)   | Typical Value (SI)    | Test Based On |
|--|---------------------------|-----------------------|---------------|
| Charpy Notched Impact Strength (73°F (23°C)) | 1.6 ft-lb/in <sup>2</sup> | 3.3 kJ/m <sup>2</sup> | ISO 179/1eA   |

| Thermal                                | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Melting Temperature                    | 318 °F                  | 159 °C             | ASTM D3418    |
| Heat Deflection Temperature (0.45 MPa) | 174 °F                  | 79.0 °C            | ISO 75-2/B    |

| Hardness                         | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------------|-------------------------|--------------------|---------------|
| Shore Hardness (Shore D, 15 sec) | 70                      | 70                 | ISO 868       |

### Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

This product, in principle, can be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

### Notes

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

Typical properties: these are not to be construed as specifications.

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