

# T50-1000 Polyethylene Copolymer

T50-1000 is a high density polyethylene copolymer. It has a narrow molecular weight distribution and is intended for general purpose molding and extrusion applications. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

## Typical Properties<sup>1</sup>

|                                 | Values         |               | ASTM Method |
|---------------------------------|----------------|---------------|-------------|
|                                 | English Units  | SI Units      |             |
| Density                         | —              | 0.951 g/cc    | D 4883      |
| Melt Index <sup>2</sup>         | —              | 11.0 g/10 min | D 1238      |
| Tensile Strength                |                |               |             |
| @ Yield (2 in/min)              | 4,000 psi      | 27.6 MPa      | D 638       |
| Elongation                      |                |               |             |
| @ Break (2 in/min)              | >600%          | >600%         | D 638       |
| Flexural Modulus <sup>3</sup>   | 175,000 psi    | 1207 MPa      | D 790       |
| Notched Izod Impact Strength    | 0.94 ft-lbf/in | 50 J/m        | D 256       |
| Hardness (Shore D)              | 65             | 65            | D 2240      |
| Vicat Softening Point           | 262 °F         | 128 °C        | D 1525      |
| Brittleness Temperature         | <-103 °F       | <-75 °C       | D 746       |
| Deflection Temperature @ 66 psi | 171 °F         | 77 °C         | D 648       |
| Molecular Weight Distribution   | —              | Narrow        | Ineos       |

<sup>1</sup> Typical properties will vary within specification limits.

<sup>2</sup> 190° C/2160 g

<sup>3</sup> Tangent-Method

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**Olefins & Polymers USA**



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## Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at [www.ineos-op.com](http://www.ineos-op.com), or call + 1-800-527-5419.

## Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.ineos-op.com](http://www.ineos-op.com). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

For additional information, samples, pricing and availability, please contact:

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