# T50-500-196 Polyethylene Copolymer

**T50-500-196 is a narrow molecular weight high density polyethylene copolymer intended for injection molding applications where a good balance of processability and end-use properties are required. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.**

## Typical Properties[1]

| | Values | | ASTM |
|---|---|---|---|
| | English Units | SI Units | Method |
| **Resin** | | | |
| **Density** | – | 0.9530 g/cc | **D4883** |
| **Melt Index 190 C/2.16 kg** | – | 6.0 g/10 min | **D1238** |
| **Compression Molded Sample** | | | |
| **Tensile Strength (2 in/min)** | | | **D 638** |
| @ Yield | 3,950 psi | 27.2 MPa | |
| @ Break | 3,620 psi | 25.0 MPa | |
| **Elongation (2 in/min)** | | | **D 638** |
| @ Yield | 10.3% | 10.3% | |
| @ Break | > 1,000 % | >1,000 % | |
| **Flexural Modulus** | | | **D790A** |
| Tangent Method | 188,600 psi | 1,300 MPa | |
| **Notched Izod Impact Strength** | 0.85 ft-lbf/in | 4.45 kJ/m² | **D256** |
| **Hardness** | | | **D2240** |
| Shore D | 68 | 68 | |
| **Vicat Softening Point** | 259 F | 126 C | **D1525** |
| **Brittleness Temperature** | <-94 F | <-70 C | **D746** |
| **Heat Deflection Temperature** | | | **D648** |
| @ 66 psi (455 kPa) | 162 F | 72 C | |
| **Environmental Stress Crack Resistance** | | | **D1693** |
| Condition B; 100% Igepal F50 (hrs.) | 7 | 7 | |

[1] **Typical properties will vary and are not to be used for specification purposes.**

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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, 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**. 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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