# T60-800-119 Polyethylene Homopolymer

**T60-800-119 is a narrow molecular weight distribution high density polyethylene homopolymer intended for general purpose injection molding applications requiring good rigidity and a glossy surface finish. 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** | – | 0.960 g/cc | **D4883** |
| **Melt Index 190 C/2.16 kg** | – | 8.0 g/10 min | **D1238** |
| **Compression Molded Sample** | | | |
| **Tensile Strength (2 in/min)** | | | **D638** |
| @ Yield | 4,550 psi | 31.0 MPa | |
| @ Break | 2,293 psi | 22.0 MPa | |
| **Elongation (2 in/min)** | | | **D638** |
| @ Yield | 8.3 % | 8.3 % | |
| @ Break | 940 % | 940 % | |
| **Flexural Modulus** | | | **D790** |
| Tangent Method | 238,830 psi | 1,647 MPa | |
| **Notched Izod Impact Strength** | 0.71 ft-lbf/in | 3.75 kJ/m$^2$ | **D256** |
| **Hardness** | | | **D2240** |
| Shore D | 70 | 70 | |
| **Vicat Softening Point** | 262.5 F | 128 C | **D1525** |
| **Brittleness Temperature** | <-94 F | <-70 C | **D746** |
| **Heat Deflection Temperature** | | | **D648** |
| @ 66 psi (455 kPa) | 174 F | 79 C | |
| **Environmental Stress Crack Resistance** | | | **D1693** |
| Condition B, 100% Igepal, F50 (hrs.) | 4 | 4 | |

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

INEOS
Olefins & Polymers USA