Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

# J60-800-178 Polyethylene Copolymer

**J60-800-178 is a high density polyethylene homopolymer intended for the injection molding of beverage closures. Because of its excellent organoleptic properties, this grade is certified as low taste and is intended for use in direct contact with beverages. Parts fabricated from this material exhibit a glossy surface finish and have good impact strength and rigidity. Typical applications include caps and closures for the packaging of still and other injection molded applications where low taste and odor are critical. 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** | — | 0.9608 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** | | | D790A |
| 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.**

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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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