# CAP508US3 Polyethylene Copolymer

CAP508US3 is a high density bimodal polyethylene copolymer intended for the injection and compression molding of closures for beverages. Because of its high purity and excellent organoleptic properties, this grade is certified as low taste and is intended for packaging in direct contact with beverages. CAP508US3 exhibits excellent stress crack resistance needed for the production of closures intended for packaging of carbonated drinks and water. CAP508US3 contains an organoleptic slip additive for lower cap removal torques and improved capping performance. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

### **Applications**

- Injection & Compression Molding
- Closures for the packaging of carbonated beverages and sparkling water
- Use in high-demanding applications such as warm climates
- Use in reduced weight cap designs

#### **Benefits**

- Outstanding stress cracking resistance
- Good processing performance

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

	Values		ASTM Method
	<b>English Units</b>	SI Units	
Density	_	0.953  g/cc	D 4883
Melt Index <sup>2</sup>	_	1.7  g/10  min	D 1238
Tensile Strength			
@ Yield (2 in/min)	3700 psi	26 MPa	D 638
Elongation			
@ Break (2 in/min)	>600%	>600%	D 638
Flexural Modulus <sup>3</sup>	200,000 psi	1,380 MPa	D 790
Notched Izod Impact Strength	2.2 ft-lbf/in	117 J/m	D 256
Environmental Stress Crack Resistance (2	10%) –	>500 hours	D1693-B
Environmental Stress Crack Resistance (2	100%) –	>3000 hours	D1693-B
Molecular Weight Distribution	_	Bimodal	Ineos

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

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<sup>&</sup>lt;sup>3</sup> Tangent-Method <sup>4</sup> Values shown are typical as measured by an internally developed Ineos method.

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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 O&P 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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