

J50-1000-181 Polyethylene Copolymer

J50-1000-181 is a high density polyethylene copolymer intended for the injection 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. This resin contains a lubrication package for improved release from the mold and lower application torques on the bottles. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Applications

- Caps and closures for the packaging of still water
- Injection molded applications where low taste and odor are critical.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.951 g/cc	D 4883
Melt Index ²	—	11.0 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	4000 psi	27.6 MPa	D 638
Elongation			
@ Break (2 in/min)	>600%	>600%	D 638
Flexural Modulus ³	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
Environmental Stress Crack Resistance ⁴	3 hours	3 hours	D1693
Molecular Weight Distribution	—	Narrow	Ineos
Organoleptic Test ⁵	—	OK	Ineos Internal

¹ Typical properties will vary within specification limits.

² 190° C/2160 g

³ Tangent-Method

⁴ Condition B, 100%

⁵ Values shown are typical as measured by an internally developed Ineos 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, or call + 1-800-527-5419.

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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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