

# 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 that is in direct contact with beverages. Typical applications are caps and closures for the packaging of still water, juice, and dairy products as well as other injection molded applications where low taste and odor are critical. This resin contains a lubrication package for improved release from the mold and lower application torques on bottles. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

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

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.951 g/cc	D4883
Melt Index 190 C/ 2.16 kg	—	11 g/10 min	D1238
<b>Compression Molded Samples</b>			
<b>Tensile Strength (2 in/min)</b>			D638
@ Yield	4,000 psi	28.0 MPa	
@ Break	1,650 psi	11.0 MPa	
<b>Elongation (2 in/min)</b>			D 638
@ Yield	9.5 %	9.5 %	
@ Break	> 800 %	> 800 %	
<b>Flexural Modulus</b>			D790A
Tangent Method	173,000 psi	1,193 MPa	
<b>Notched Izod Impact Strength</b>	0.7 ft-lbf/in	3.7 kJ/m <sup>2</sup>	D256
<b>Hardness</b>			D2240
Shore D	66	66	
<b>Vicat Softening Point</b>	253 F	123 C	D1525
<b>Brittleness Temperature</b>	<-94 F	<-70 C	D746
<b>Heat Deflection Temperature</b>			D648
@ 66 psi (455kPa)	163 F	73 C	
<b>Environmental Stress Crack Resistance</b>			D1693
Condition B, 100% Igepal, F50 (hrs.)	4	4	

<sup>1</sup> Typical properties will vary and are not to be used for specification purposes.

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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, 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](http://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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