

B4020N1331 Polyethylene Copolymer

B4020N1331 is a unique high density polyethylene copolymer intended for the injection or 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. It has a broad molecular weight distribution for faster molding cycles and enhanced stress crack resistance. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Applications

- Caps and closures for the packaging of sparkling water or carbonated beverages
- Injection and compression molded applications where low taste and odor are critical.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.953 g/cc	D 4883
Melt Index ²	—	1.9 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	4,100 psi	28.3 MPa	D 638
Elongation			
@ Break (2 in/min)	>700%	>700%	D 638
Flexural Modulus ³	170,000 psi	1,172 MPa	D 790
Notched Izod Impact Strength	1.3 ft-lbf/in	70 J/m	D 256
Hardness (Shore D)	65	65	D 2240
Vicat Softening Point	259 °F	126 °C	D 1525
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Deflection Temperature @ 66 psi	154 °F	68 °C	D 648
ESCR ⁴	10 hrs	10 hrs	D 1693

¹ Typical properties will vary within specification limits.

² 190° C/2160 g

³ Tangent-Method

⁴ Condition B, 10%

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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 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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