

B4020N1333 Polyethylene Copolymer

B4020N1333 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 resin contains a lubrication package for improved release from the mold and lower application torques on the bottle. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Applications

- Caps and closures for the packaging of carbonated and other 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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For additional information, samples, pricing and availability, please contact:

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