

# B50-35H-176 Polyethylene Copolymer

B50-35H-176 is a high density polyethylene copolymer developed for blow molding. It is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). This material contains a fully FDA sanctioned antistat and meets the Food and Drug Administration requirements of 21CFR 177.1520. This resin is Kosher certified.

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

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.950 g/cc	D 4883
Melt Index <sup>2</sup>	—	0.35 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	3700 psi	25.5 MPa	D 638
Elongation			
@ Break (2 in/min)	>700%	>700%	D 638
Flexural Modulus <sup>3</sup>	160,000 psi	1103 MPa	D 790
Stiffness in Flexure	87,000 psi	600 MPa	D 747
Notched Izod Impact Strength	3.5 ft-lbf/in	0.19 kJ/m	D 256
Tensile Impact Strength	144 ft-lbf/in <sup>2</sup>	302 kJ/m <sup>2</sup>	D 1822
Hardness (Shore D)	65	65	D 2240
Vicat Softening Point	266 °F	130 °C	D 1525
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Deflection Temperature @66 psi	158 °F	70 °C	D 648

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

<sup>2</sup> 190° C/2160 g

<sup>3</sup> Tangent-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, send an e-mail to: [OPMSDS@innovene.com](mailto:OPMSDS@innovene.com).

## Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained by calling + 1-800-527-5419 (Toll Free - North America), or by sending an e-mail to: [OPMSDS@innovene.com](mailto:OPMSDS@innovene.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 Innovene 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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