

B50-35H-011 Polyethylene Copolymer

B50-35H-011 is a high density polyethylene copolymer developed for blow molding applications. 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 meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.950 g/cc	D 4883
Melt Index ²	—	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 ³	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 ²	302 kJ/m ²	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

¹ Typical properties will vary within specification limits.

² 190° C/2160 g

³ Tangent-Method

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2600 South Shore Boulevard, Ste. 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

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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 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:

INEOS Olefins & Polymers, USA

Marina View Building
2600 South Shore Boulevard
Suite 500
League City, Texas 77573
Phone: +1 281 535 6600
Fax: +1 281 535 6764
Customer Service: +1 800 527 5419
Tech Service: +1 800 338 0489
www.ineos-op.com

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