

# B53-35H-011 Polyethylene Copolymer

B53-35H-011 is a high density polyethylene copolymer developed for blow molding applications. This product 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. This resin contains no animal based additives and is suitable for Kosher applications.

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

	Values		ASTM Method
	English Units	SI Units	
Density	—	0.955 g/cc	D 4883
Melt Index <sup>2</sup>	—	0.35 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	4000 psi	27.6 MPa	D 638
Elongation			
@ Break (2 in/min)	>700%	>700%	D 638
Tensile Modulus of Elasticity <sup>3</sup>	217,000 psi	1497 MPa	D 638
Flexural Modulus <sup>3</sup>	180,000 psi	1241 MPa	D 790
Stiffness In Flexure	100,000 psi	690 MPa	D 747
Notched Izod Impact Strength	3.5 ft-lbf/in	0.19 kJ/m	D 256
Tensile Impact Strength	132 ft-lbf/in <sup>2</sup>	277 kJ/m <sup>2</sup>	D 1822
Hardness (Shore D)	65	65	D 2240
Vicat Softening Point	268 °F	131 °C	D 1525
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Deflection Temperature @66 psi	165 °F	74 °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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