

# B54-25H-127 Polyethylene Copolymer

B54-25H-127 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 Food and Drug Administration requirements of 21CFR 177.1520.

## 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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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](http://www.ineos-op.com), or call + 1-800-527-5419.

## Health and Safety Information

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](http://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:

### ***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](http://www.ineos-op.com)

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