

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.

Typical Properties¹

| | Values | | ASTM Method |
|--|----------------------------|-----------------------|-------------|
| | English Units | SI Units | |
| Density | — | 0.955 g/cc | D 4883 |
| Melt Index ² | — | 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 ³ | 217,000 psi | 1497 MPa | D 638 |
| Flexural Modulus ³ | 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 ² | 277 kJ/m ² | 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 |

¹ Typical properties will vary within specification limits.

² 190° C/2160 g

³ 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, 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 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. 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:

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