

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 Properties¹

| | Values | | ASTM Method |
|---------------------------------------|---------------|----------------------|-------------|
| | English Units | SI Units | |
| Resin | | | |
| Density | — | 0.955 g/cc | D4883 |
| Melt Index 190°C/2.16 kg | — | 0.35 g/10 min | D1238 |
| Compression Molded Samples | | | |
| Tensile Strength (2 in/min) | | | D638 |
| @ Yield | 4,000 psi | 27 MPa | |
| @ Break | 2,500 psi | 17 MPa | |
| Elongation (2 in/min) | | | D638 |
| @ Yield | 9% | 9% | |
| @ Break | >600% | >600% | |
| Flexural Modulus | | | D790A |
| Tangent Method | 210,000 psi | 1450 MPa | |
| 2% Secant Method | 150,000 psi | 1035 MPa | |
| Notched Izod Impact Strength | 3.2 ft-lbf/in | 16 kJ/m ² | D256 |
| Hardness (Shore D) | 64 | 64 | D2240 |
| Vicat Softening Point | 261 F | 127 C | D1525 |
| Brittleness Temperature | <-103 F | <-75 C | D746 |
| Heat Deflection Temperature | | | D648 |
| @ 66 psi (455 kPa) | 167 F | 75 C | |
| @ 264 psi (1,820 kPa) | 118 F | 48 C | |
| Environmental Stress Crack Resistance | | | D1693 |
| Condition B, 100% Igepal F50 (hrs.) | 30 hrs | 30 hrs | |

¹ Properties will vary and are not to be used for specification purposes.

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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, 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. 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 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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