

G60-25-144 Polyethylene Homopolymer

G60-25-144 is a high density polyethylene homopolymer typically used in the production of sheet extrusion and blow molded containers. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties¹

| | Values | | ASTM Method |
|--------------------------------------|----------------------------|-----------------------|-------------|
| | English Units | SI Units | |
| Density | – | 0.960 g/cc | D 4883 |
| Melt Index ² | – | 0.25 g/10 min | D 1238 |
| Tensile Strength | | | |
| @ Yield (2 in/min) | 4500 psi | 31.0 MPa | D 638 |
| Elongation | | | |
| @ Break (2 in/min) | >800% | >800% | D 638 |
| Tensile Modulus of Elasticity | 195,000 psi | 1344 MPa | D 638 |
| Flexural Modulus ³ | 225,000 psi | 1550 MPa | D 790 |
| Stiffness In Flexure | 125,000 psi | 861 MPa | D 747 |
| Notched Izod Impact Strength | 4.0 ft-lbf/in | 0.21 kJ/m | D 256 |
| Tensile Impact Strength ⁴ | 123 ft-lbf/in ² | 258 kJ/m ² | D 1822 |
| Hardness (Shore D) | 66 | 66 | D 2240 |
| Vicat Softening Point | 268 °F | 131 °C | D 1525 |
| Brittleness Temperature | <-103 °F | <-75 °C | D 746 |
| Deflection Temperature @66 psi | 176 °F | 80 °C | D 648 |

¹ Typical properties will vary within specification limits.

² 190° C/2160 g

³ Tangent-Method

⁴ Type L

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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.

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