

# Preliminary

## J52-08-226 Polyethylene Copolymer

J52-08-226 is a bimodal high molecular weight high density polyethylene copolymer designed for thin gauge blown film applications such as: Grocery Sacks, T-shirt bags, Institutional / Industrial Can Liners, Roll Stock, Produce Bags, Heavy Duty Bags and Deli Wrap where good processability, high stiffness and excellent strength are required.

J52-08-226 is under evaluation for U.S. Food and Drug Administration for 21 CFR 177.1520 covering the safe use of articles intended for use in food contact applications.

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

|                                   | Typical Values |               | ASTM Method  |
|-----------------------------------|----------------|---------------|--------------|
|                                   | English Units  | SI Units      |              |
| <b>Resin</b>                      |                |               |              |
| <b>Density</b>                    | -              | 0.952 g/cc    | <b>D4883</b> |
| <b>Melt Index 190 C / 2.16 kg</b> |                | 0.08 g/10 min | <b>D1238</b> |
| <b>Melt Index 190 C / 5.0 kg</b>  |                | 0.28 g/10 min |              |
| <b>Melt Index 190 C / 21.6 kg</b> | -              | 9.0 g/10 min  |              |
| <b>Film Properties</b>            |                |               |              |
| <b>Dart Drop Impact, F50</b>      | -              | 350 g         | <b>D1709</b> |
| <b>Elmendorf Tear Strength</b>    |                |               | <b>D882</b>  |
| <b>MD</b>                         | -              | 18            |              |
| <b>TD</b>                         | -              | 180           |              |
| <b>Tensile Strength @ Yield</b>   |                |               | <b>D882</b>  |
| <b>MD</b>                         | 5,000 psi      | 34.5 MPa      |              |
| <b>TD</b>                         | 4,500 psi      | 31.0 MPa      |              |
| <b>Tensile Strength @ Break</b>   |                |               | <b>D882</b>  |
| <b>MD</b>                         | 10,000 psi     | 69.0 MPa      |              |
| <b>TD</b>                         | 9,000 psi      | 62.0 MPa      |              |
| <b>Elongation @ Break</b>         |                |               | <b>D882</b>  |
| <b>MD</b>                         | -              | 300 %         |              |
| <b>TD</b>                         | -              | 500 %         |              |
| <b>Secant Modulus (2%)</b>        |                |               | <b>D882</b>  |
| <b>MD</b>                         | 135,000 psi    | 930 MPa       |              |
| <b>TD</b>                         | 150,000 psi    | 1035 MPa      |              |

<sup>1</sup> Typical properties will vary within specification limits.

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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](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:

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