

**Description**

**HDPE D4720:** Excellent processability, good tear and impact strength, good stiffness, excellent compatibility with LDPE and LLDPE, excellent drawdown, good moisture barrier properties.

**Applications:** Multi-wall liner, gas flush poultry bags, mailing envelopes, heavy-duty shipping sacks, fresh cut produce packaging, coextrusions.

**Characteristics**

|   | Method    | Unit                      | Typical Value |
|---|-----------|---------------------------|---------------|
| <b>Rheological Properties<sup>(1)</sup></b>   |           |                           |               |
| Melt Flow Index                               | D-1238    | g/10 min                  |               |
| 190°C/2.16 kg                                 |           |                           | 0.28          |
| 190°C/21.6 kg                                 |           |                           | 20.0          |
| <b>Mechanical Properties<sup>(1)(2)</sup></b> |           |                           |               |
| Dart Impact                                   | D-1709    | g                         | <50           |
| Elmendorf Tear                                | D-1922    | g (MD/TD)                 | 10 / 1,450    |
| Tensile Strength @ Yield                      | D882, A   | psi (MD/TD)               | 3,400 / 3,800 |
| Tensile Strength @ Break                      | D882, A   | psi (MD/TD)               | 9,000 / 2,700 |
| Elongation at Break                           | D882, A   | % (MD/TD)                 | 450 / 600     |
| 1% Secant Modulus                             | D882, A   | psi (MD/TD)               | 103 / 145     |
| <b>High Stalk Extrusion<sup>(4)</sup></b>     |           |                           |               |
| Dart Impact                                   | D-1709, A | g                         | 100           |
| Elmendorf Tear                                | D-1922    | g (MD/TD)                 | 28 / 530      |
| Tensile Strength @ Yield                      | D882, A   | psi (MD/TD)               | 3,500 / 3,700 |
| Tensile Strength @ Break                      | D882, A   | psi (MD/TD)               | 700 / 5700    |
| Elongation @ Break                            | D882, A   | % (MD/TD)                 | 600 / 700     |
| WVTR  | E-96/66   | g/100in <sup>2</sup> /day | 0.5           |
| <b>Thermal Properties<sup>(1)(2)</sup></b>    |           |                           |               |
| Melting Point                                 | D-3417    | °F                        | 264           |
| <b>Other Physical Properties</b>              |           |                           |               |
| Density                                       | D-792     | g/cm <sup>3</sup>         | 0.945         |
| <b>Processing Recommendations</b>             |           |                           |               |
| Extrusion Melt Temperature                    |           | °F                        | 380 - 420     |

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) Film was produced at 1.0 mil with a 2.5 BUR.

(3) Water Vapor Transmission Rate

(4) Film was produced at 1.0 mil with a 6:1 FLH/D ratio and a 4:1 BUR

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