

## Braskem TX9003 LDPE Blown Film Extrusion Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

### Material Notes:

TX9003 is a low-density polyethylene (LDPE) that presents excellent mechanical resistance, good optical properties, and high stiffness. These characteristics provide, in some applications, down gauging and excellent impression quality. This product is identified as PE 125 according to ASTM D 4976-04a standard specification. It does not contain additives. Its applications include: technical shrink-wrap films with transparent and high superficial gloss; and monolayer and multi-layer technical films for packages that need gloss associated with mechanical resistance and greater stiffness.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-TX9003-LDPE-Blown-Film-Extrusion-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-TX9003-LDPE-Blown-Film-Extrusion-Polyethylene.php)

| Physical Properties | Metric                               | English                              | Comments   |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Density             | 0.929 g/cc                           | 0.0336 lb/in <sup>3</sup>            | ASTM-D792  |
| Melt Flow           | 0.30 g/10 min                        | 0.30 g/10 min                        | ASTM-D1238 |
|                     | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F |            |

| Mechanical Properties              | Metric        | English    | Comments                     |
|------------------------------------|---------------|------------|------------------------------|
| Film Elongation at Break, MD       | 370 %         | 370 %      | ASTM-D882                    |
| Film Elongation at Break, TD       | 700 %         | 700 %      | ASTM-D882                    |
| Secant Modulus, MD                 | 0.170 GPa     | 24.7 ksi   | 2% Secant Modulus; ASTM-D882 |
| Secant Modulus, TD                 | 0.180 GPa     | 26.1 ksi   | 2% Secant Modulus; ASTM-D882 |
| Elmendorf Tear Strength MD         | 210 g         | 210 g      | ASTM-D1922                   |
| Elmendorf Tear Strength TD         | 260 g         | 260 g      | ASTM-D1922                   |
| Elmendorf Tear Strength, MD        | 4.20 g/micron | 107 g/mil  | ASTM-D1922                   |
| Elmendorf Tear Strength, TD        | 5.20 g/micron | 132 g/mil  | ASTM-D1922                   |
| Dart Drop                          | 2.40 g/micron | 61.0 g/mil | ASTM-D1709                   |
| Dart Drop Test                     | 120 g         | 0.265 lb   | ASTM-D1709                   |
| Film Tensile Strength at Break, MD | 25.0 MPa      | 3630 psi   | ASTM-D882                    |
| Film Tensile Strength at Break, TD | 24.0 MPa      | 3480 psi   | ASTM-D882                    |

| Optical Properties | Metric | English | Comments   |
|--------------------|--------|---------|------------|
| Haze               | 11 %   | 11 %    | ASTM-D1003 |

| Optical Properties    | Metric | English | Comments                              |
|-----------------------|--------|---------|---------------------------------------|
|                       | 75 %   | 75 %    | ASTM-D2457<br>Angle 60°; ASTM-D2457   |
| Transmission, Visible | 90 %   | 90 %    | transparent; thickness not quantified |

| Processing Properties | Metric    | English   | Comments            |
|-----------------------|-----------|-----------|---------------------|
| Die Opening           | 0.100 cm  | 0.0394 in | Blow Film Extrusion |
| Blow-up Ratio (BUR)   | 2.0 - 3.0 | 2.0 - 3.0 | Blow Film Extrusion |

| Descriptive Properties   | Value   | Comments            |
|--------------------------|---------|---------------------|
| Mass Temperature (°C)    | 180-220 | Blow Film Extrusion |
| Temperature Profile (°C) | 150-195 | Blow Film Extrusion |

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