

## Braskem GP5550 HDPE High Density Extrusion Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

**Material Notes:**

GP5550 is a high-density polyethylene with high molar mass. It is produced with bimodal technology and shows excellent mechanical properties and high resistance to stress cracking. Its applications include: straight pipes for mining, subducts for energy and telecom, jacketing of optic fibers and metallic cables, geomembranes, and blends for irrigation pipes.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-GP5550-HDPE-High-Density-Extrusion-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-GP5550-HDPE-High-Density-Extrusion-Polyethylene.php)

| Physical Properties | Metric   | English   | Comments                           |
|---------------------|--|---|------------------------------------|
| Density             | 0.951 g/cc   | 0.0344 lb/in <sup>3</sup>                                   | ASTM-D792                          |
| ESCR 100% Igepal®   | >= 1000 hour<br>@Thickness 2.00 mm,<br>Temperature 50.0 °C | >= 1000 hour<br>@Thickness 0.0787 in,<br>Temperature 122 °F | 0.3 mm notched-plaques; ASTM-D1693 |
| Melt Flow           | 0.23 g/10 min<br>@Load 5.00 kg,<br>Temperature 190 °C      | 0.23 g/10 min<br>@Load 11.0 lb,<br>Temperature 374 °F       | ASTM-D1238                         |

| Mechanical Properties       | Metric    | English       | Comments   |
|-----------------------------|-----------|---------------|------------|
| Hardness, Shore D           | 64        | 64            | ASTM-D2240 |
| Tensile Strength at Break   | 38.0 MPa  | 5510 psi      | ASTM-D638  |
| Tensile Strength, Yield     | 25.0 MPa  | 3630 psi      | ASTM-D638  |
| Elongation at Break         | 780 %     | 780 %         | ASTM-D882  |
| Elongation at Yield         | 8.4 %     | 8.4 %         | ASTM-D882  |
| Flexural Modulus, 1% Secant | 1150 MPa  | 167000 psi    | ASTM-D790  |
| Izod Impact, Notched        | 3.40 J/cm | 6.37 ft-lb/in | ASTM-D256  |

| Thermal Properties                          | Metric                  | English                 | Comments   |
|---|-------------------------|-------------------------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 71.0 °C                 | 160 °F                  | ASTM-D648  |
| Vicat Softening Point                       | 125 °C<br>@Load 1.02 kg | 257 °F<br>@Load 2.25 lb | ASTM-D1525 |

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