



## Product Data

### TITANEX MF1461 FOR GEOMEMBRANE

|                     |                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| <b>CHARACTER</b>    | MF1461 is a pelleted linear low density polyethylene Hexene-1 resin for blown film extrusion.                    |
| <b>APPLICATIONS</b> | Geomembrane, High strength film.                                                                                 |
| <b>ADVANTAGES</b>   | High melt strength, Excellent stress crack resistance, Excellent drawdown properties for high quality thin film. |

| <b><u>TYPICAL RESIN PROPERTIES</u></b> | <b><u>UNIT</u></b> | <b><u>MF1461</u> <sup>(a)</sup></b> | <b><u>ASTM METHOD</u> <sup>(b)</sup></b> |
|----------------------------------------|--------------------|-------------------------------------|------------------------------------------|
| Melt index, I <sub>2</sub>             | g/10 min.          | <b>0.1</b>                          | D 1238                                   |
| Melt index, I <sub>21</sub>            | g/10 min.          | <b>14</b>                           | D 1238                                   |
| Density                                | g/cm <sup>3</sup>  | <b>0.938</b>                        | D 1505                                   |
| Oxidative Induction Time, OIT @ 200°C  | mins               | <b>&gt; 130</b>                     | D 3895                                   |

#### **TYPICAL SHEET PROPERTIES <sup>(c)</sup>**

|                                                |                    |                  |        |
|------------------------------------------------|--------------------|------------------|--------|
| Tensile strength at break                      | kg/cm <sup>2</sup> | <b>310</b>       | D 638  |
| Elongation at break                            | %                  | <b>700</b>       | D 638  |
| Flexural modulus                               | kg/cm <sup>2</sup> | <b>10400</b>     | D 790  |
| Izod impact                                    | kJ/m <sup>2</sup>  | <b>58</b>        | D 256  |
| ESCR Condition B (10% Igepal), F <sub>50</sub> | hrs                | <b>&gt; 4000</b> | D 1693 |

(a) Values shown are typical and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

(c) Compression molded specimen prepared in accordance with ASTM D 1928.

Shrinkage : 2 - 5% depending on the product wall thickness and molding parameters.

#### **Processing conditions**

Extrudable by conventional blown film extruder.

Melt temperature, °C : 180 - 200

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