



MEGAPLAST

# Megaplast Textured Geomembrane (Double-Sided)

Megaplast High Density Polyethylene (HDPE) Geomembrane is manufactured with the highest quality resin specifically formulated and used in applications that require excellent chemical resistance and endurance properties.

**AT THE CORE:**

An HDPE geomembrane suitable for applications that require excellent chemical resistance and endurance properties

## MEGA PLATINUM TEXTURED D 200

### Technical Data Sheet

This product specifications meet or exceed GRI GM 13

| Sr. No. | Properties  | Test Method (ASTM)   | Unit (Metric) | Testing Frequency                          | MEGA PLATINUM TEXTURED D 200 |
|---------|---|----------------------|---------------|--|------------------------------|
| 1       | Thickness - ((nom -5%) min. ave.) <sup>(Note 7(a))</sup>                  |                      |               |  | 2.0                          |
|         | Lowest Individual for 8 out of 10 values <sup>(Note 7(b))</sup>           | D 5994               | mm            | Every roll                                 | 1.80                         |
|         | Lowest Individual reading for any of the 10 values <sup>(Note 7(c))</sup> |                      |               |  | 1.70                         |
| 2       | Density (min. Ave)  | D 792                | g/cc          | Every 90,000 kg                            | 0.940                        |
| 3       | Tensile Properties (min. ave) <sup>(Note 6)</sup>                         | D 6693 Type          |               |  |                              |
|         | Break Strength  | IV Dumbbell          | KN/M          |  | 21                           |
|         | Yield Strength  | ,2ipm                | KN/M          | Every 5th roll                             | 30                           |
|         | Break Elongation  | G.L. 50 mm           | %             |  | 150                          |
|         | Yield Elongation  | G.L. 33 mm           | %             |  | 12                           |
| 4       | Tear Resistance (Min. Ave)  | D 1004               | N.            | Every 10th roll                            | 249                          |
| 5       | Puncture Resistance (Min. Ave)  | D 4833               | N.            | Every 10th roll                            | 600                          |
| 6       | Carbon Black Content (Range)  | D 4218/<br>D 1603    | %             | Every 5th roll                             | 2.0-3.0                      |
| 7       | Carbon Black Dispersion   | D 5596               | Category      | Every 10th roll                            | Note 1                       |
| 8       | Asperity Height (min. ave)  | D 7466               | mm            | Every 2nd roll                             | Note 2                       |
| 9       | Stress Crack Resistance (Note 5)<br>(SP - Notched Constant Tensile Load)  | D 5397<br>(Appendix) | Hrs.          | Each two resin lots<br>(one lot=90,000 kg) | 500                          |
| 10      | Oxidative Induction Time (min. ave)<br>Standard-OIT                       | D 3895<br>(at 200°C) | Minutes       | Every 90,000 kg                            | >100                         |
|         | OR<br>High Pressure-OIT   | D 5895<br>(at 150°C) |               |  | >500                         |
| 11      | Oven Aging at 85°C<br>Standard-OIT (min. ave)-%<br>retained after 90 days | D 5721<br>D 3895     | %             | Per each formulation                       | 55                           |
|         | OR<br>High Pressure-OIT (min. ave) -%<br>retained after 90 days           | D 5721<br>D 5885     |               |  | 80                           |
| 12      | UV Resistance<br>HP-OIT (min. ave)-% retained<br>after 1600 hrs           | D 7238<br>D 5885     | %             | Per each formulation                       | 50                           |

TYPICAL ROLL DIMENSIONS <sup>(Note3)</sup>

|                         |   |     |
|-------------------------|---|-----|
| Rev. Date<br>14/06/2016 | Roll Width, m                                     | 8.0 |
|                         | Roll Length, m (As required by customer) or up to | 80  |
|                         | Roll Area, m <sup>2</sup>                         | 640 |

NOTE 1 : Dispersion only applies to near spherical agglomerates 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.

NOTE 2 : 0.40 mm average

NOTE 3 : Roll length & widths have a tolerance of +/- 1%

NOTE 4 : All geomembranes have dimensional stability of +/- 2% when tested according to ASTM D 1204

NOTE 5 : NCTL for HD textured is conducted on representative smooth membrane sample

NOTE 6 : Machine direction (MD) & Cross direction (XMD) average values should be on the basis of 5 specimens each direction

NOTE 7 : (a) Minimum average core thickness is -5% of the nominal thickness  
 (b) Lowest thickness for 8 out of 10 values is -10% of the nominal value  
 (c) Lowest thickness for any of the 10 values is -15% of the nominal value

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