

Megaplast Textured Geomembrane (Single-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.



MEGAPLAST

AT THE CORE:

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

MEGAPLatinum TEXTURED S 250

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

| Sr.No. | Properties | Test Method (ASTM) | Unit (English) | Testing Frequency | MEGAPLatinum TEXTURED S 250 | |
|--------|--|-------------------------------|----------------|--|-----------------------------|-----|
| 1 | Thickness - ((nom -5 %) min ave.) (Note7(a)) | D 5994 | mils | Every roll | 100 | |
| | Lowest Individual for 8 out of 10 values (Note7(b)) | | | | 90 | |
| | Lowest Individual reading for any of the 10 values (Note7(c)) | | | | 85 | |
| 2 | Density (min ave) | D 792 | g/cc | Every (200,000 lb) | 0.940 | |
| | Melt Flow Index (MFI) , (190 °C / 2.16 kgf) | D 1238 | g/10 min | Per batch / Lot | ≤ 1.0 | |
| 3 | Tensile Properties (min.ave) (Note6) | D 6693 Type IV Dumbell , 2ipm | | Every 5th roll | | |
| | →Break strength | | | | lb/in | 154 |
| | → Yield strength | | | | lb/in | 217 |
| | →Break Elongation | | | | % | 150 |
| | →Yield Elongation | | | | % | 12 |
| 4 | Tear Resistance (min.ave) | D 1004 | lb | Every 10th roll | 70 | |
| 5 | Puncture Resistance (min ave) | D 4833 | lb | Every 10th roll | 157 | |
| 6 | Carbon Black Content (Range) | D 4218 / 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 | mil | Every 2nd roll | Note 2 | |
| 9 | Stress Crack Resistance (Note 5) (SP - Notched Constant Tensile Load) | D 5397 (Appendix) | Hrs. | Each two resign lots (One lot = 200,000 lb) | 500 | |
| 10 | Oxidative Induction Time (min.ave) Standard -OIT --OR-- High Pressure -OIT | D 3895 (at 200 dig C) | Minutes | Every 200,000 lb | > 100 | |
| | | D 5885 (at 150 dig C) | | | > 500 | |
| 11 | Oven Aging at 85 deg C. Standard -OIT (min.ave) - % retained after 90 days ---OR--- High Pressure -OIT (min.ave) - % retained after 90 days | D 5721 D 3895 | % | Per each formulation | 55 | |
| | | D 5721 D 5885 | | | 80 | |
| 12 | UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs | D 7238 D 5885 | % | Per each formulation | 50 | |

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| TYPICAL ROLL DIMENSIONS (Note3) | | |
|---------------------------------|----------|------|
| Roll Width , | feet | 23.0 |
| Roll Length , | feet | 195 |
| Roll Area , | Sq. Feet | 4485 |

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: 16 mil 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.

