

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

MEGAGOLD PLUS TEXTURED S PRODUCTS

Technical Data Sheet

| Sr.No. | Properties | Test Method (ASTM) | Unit (English) | Testing Frequency | MEGAGOLD PLUS TEXTURED S 100 | MEGAGOLD PLUS TEXTURED S 150 | MEGAGOLD PLUS TEXTURED S 200 | MEGAGOLD PLUS TEXTURED S 250 | MEGAGOLD PLUS TEXTURED S 300 | | | | | | | |
|--------|---|-------------------------------|----------------|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------|-------|-------|-------|-------|-----|-----|
| 1 | Thickness - ((nom -10 %) min ave.) | D 5994 | mils | Every roll | 40 | 60 | 80 | 100 | 120 | | | | | | | |
| 2 | Density (min ave) | D 792 | g/cc | Every 200,000 lb | 0.940 | 0.940 | 0.940 | 0.940 | 0.940 | | | | | | | |
| | Melt Flow Index (MFI) (190°C/2.16 kgf) | D 1238 | g /10 min | Per batch / lot | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 | | | | | | | |
| 3 | Tensile Properties (min.ave) (Note2) | D 6693 Type IV Dumbell , 2ipm | | Every 5th roll | | | | | | | | | | | | |
| | →Break strength | | | | | | | | | lb/in | 63 | 91 | 120 | 154 | 188 | |
| | → Yield strength | | | | | | | | | lb/in | 68 | 108 | 148 | 177 | 211 | |
| | →Break Elongation | | | | | | | | | G.L. 50mm | % | 150 | 150 | 150 | 150 | 150 |
| | →Yield Elongation | | | | | | | | | G.L. 33mm | % | 12 | 12 | 12 | 12 | 12 |
| 4 | Tear Resistance (min.ave) | D 1004 | lb | Every 10th roll | 22 | 34 | 50 | 56 | 67 | | | | | | | |
| 5 | Puncture Resistance (min ave) | D 4833 | lb | Every 10th roll | 56 | 79 | 108 | 126 | 148 | | | | | | | |
| 6 | Carbon Black Content (Range) | D 4218 / D 1603 | % | Every 5th roll | 2.0 - 3.0 | 2.0 - 3.0 | 2.0 - 3.0 | 2.0 - 3.0 | 2.0 - 3.0 | | | | | | | |
| 7 | Carbon Black Dispersion | D 5596 | Category | Every 10th roll | Note 1 | Note 1 | Note 1 | Note 1 | Note 1 | | | | | | | |
| 8 | Asperity Height (min ave) | D 7466 | mils | Every 2nd roll | 12 | 12 | 12 | 12 | 12 | | | | | | | |
| 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 | 500 | 500 | 500 | 500 | | | | | | | |
| 10 | Oxidative Induction Time (min.ave) Standard -OIT | D 3895 (at 200 dig C) | Minutes | Every 200,000 lb | | | | | | | | | | | | |
| | --OR-- High Pressure -OIT | D 5885 (at 150 dig C) | | | | | | | | > 100 | > 100 | > 100 | > 100 | > 100 | | |
| 11 | Oven Aging at 85 deg C. Standard -OIT (min.ave) - % retained after 90 days | D 5721 D 3895 | % | Per each formulation | | | | | | | | | | | | |
| | --OR-- High Pressure -OIT (min.ave) - % retained after 90 days | D 5721 D 5885 | | | | | | | | 55 | 55 | 55 | 55 | 55 | | |
| 12 | UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs | D 7238 D 5885 | % | Per each formulation | 50 | 50 | 50 | 50 | 50 | | | | | | | |

TYPICAL ROLL DIMENSIONS (Note3)

| | | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
|-------------|----------|-------|------|------|------|------|
| Roll Width | feet | | | | | |
| Roll Length | feet | 530 | 370 | 260 | 195 | 160 |
| Roll Area | Sq. Feet | 12190 | 8510 | 5980 | 4485 | 3680 |

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

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 .

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