

Megaplast Smooth Geomembrane

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

MEGADIAMOND 75

Technical data Sheet

This product specifications exceed GRI GM 13

| Sr.No. | Properties | Test Method (ASTM) | Unit (English) | Testing Frequency | MEGADIAMOND 75 |
|--------|---|--------------------------------|----------------|---|----------------|
| 1 | Thickness - (min.) | D 5199 | mils | Every roll | 30 |
| | Lowest Individual Reading of 10 values | | | | 30 |
| 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) ^(Note4) | D 6693 Type IV Dumbbell , 2ipm | lb/in | Every 5th roll | 131 |
| | →Break strength | | | | 68 |
| | → Yield strength | | | | 700 |
| | →Break Elongation | | | | 13 |
| | →Yield Elongation | | | | |
| | G.L. 50mm | % | | | |
| | G.L. 33mm | % | | | |
| 4 | Tear Resistance (min.ave) | D 1004 | lb | Every 10th roll | 23 |
| 5 | Puncture Resistance (min ave) | D 4833 | lb | Every 10th roll | 56 |
| 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 | Stress Crack Resistance (SP - Notched Constant Tensile Load) | D 5397 (Appendix) | Hrs. | Each two resign lots (One lot = 200,000 lb) | 500 |
| 9 | Oxidative Induction Time (min.ave) Standard -OIT | D 3895 (at 200 dig C) | Minutes | Every 200,000 lb | > 150 |
| | -- OR--- High Pressure -OIT | | | | > 750 |
| 10 | Oven Aging at 85 deg C. Standard -OIT (min.ave) - % retained after 90 days | D 5721 D 3895 | % | Per each formulation | 55 |
| | ---OR---- High Pressure -OIT (min.ave) - % retained after 90 days | D 5721 D 5885 | | | 80 |
| 11 | UV Resistance HP -OIT (min.ave) - % retained after 1600 hrs | D 7238 D 5885 | % | Per each formulation | 50 |

TYPICAL ROLL DIMENSIONS ^(Note2)

| | |
|----------------------|-------|
| Roll Width , feet | 23.00 |
| Roll Length , feet | 920 |
| Roll Area , Sq. Feet | 21160 |

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

Note 3 : All geomembranes have dimensional stability of +/- 2% when tested according to ASTM D 1204 .

Note 4 : Machine direction(MD) & Cross direction (XMD) average values should be on the basis of 5 specimens each direction.