

Megaliner® 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.



AT THE CORE:

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

Megaliner® PLATINUM 200

Technical Data Sheet

This product specifications meet or exceed GRI GM 13

| Sr. No. | Properties | Test Method (ASTM) | Unit (English) | Testing Frequency | MEGAPLATINUM 200 |
|---------|--|------------------------------|----------------|---|------------------|
| 1. | Thickness - (min ave.) | D 5199 | mils | Every roll | 80 |
| | Lowest Individual Reading of 10 values | | | | 72 |
| 2. | Density (Min. Ave) | D 792 | g/cc | Every 2,00,000 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) ^(Note 4) | D 6693 Type IV Dumbell, 2ipm | lb/in | Every 5th roll | 325 |
| | ▶ Break Strength | | | | 171 |
| | ▶ 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 | 56 |
| 5. | Puncture Resistance (min. ave) | D 4833 | lb | Every 10th roll | 151 |
| 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°C) | Minutes | Every 200,000 lb | > 100 |
| | --OR-- High Pressure - OIT | D 5885 (at 150°C) | | | > 500 |
| 10. | Oven Aging at 85°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 | D 7238 | % | Per each formulation | 50 |
| | HP - OIT (min. ave) - % retained after 1600 hrs | D 5885 | | | |

| | | |
|--------------------------|---|-------------|
| Rev3 date: Jan - 2019 | Typical Roll Dimension ^(Note 2) | |
| | Roll Width, ft | 23.5 |
| | Roll Length, ft | 420 |
| | Roll Area, Sq. ft | 9870 |

Note 1 : Dispersion only applies to near spherical agglomerates 9 to 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.

Megaplast USA Inc.