

HUITEX HDPE SMOOTH GEOMEMBRANE – CONDUCTIVE GM13

| Properties | Test Method | HD/HP150 | HD/HP200 | HD250 | HD300 |
|--|---|--------------------|--------------------|--------------------|--------------------|
| Thickness, mm Average values | ASTM D5199 | 1.50 | 2.00 | 2.50 | 3.00 |
| Sheet density, g/cm ³ | ASTM D792 | 0.940 | 0.940 | 0.940 | 0.940 |
| Melt Index, 190/2.16, g/10min | ASTM D1238 | <1 | <1 | <1 | <1 |
| Tensile Properties: ⁽¹⁾ | ASTM D6693 Type IV specimen @ 50 mm/min | | | | |
| 1.Strength at Yield, kN/m | | 22 | 29 | 37 | 44 |
| 2.Strength at Break, kN/m | | 40 | 53 | 67 | 80 |
| 3.Elongation at Yield, % | G.L. = 33 mm | 12 | 12 | 12 | 12 |
| 4.Elongation at Break, % | G.L. = 50 mm | 700 | 700 | 700 | 700 |
| Tear Resistance, N | ASTM D1004 | 187 | 249 | 311 | 374 |
| Puncture Resistance, N | ASTM D4833 | 480 | 640 | 800 | 960 |
| Stress Crack Resistance, hrs | ASTM D5397 (Appendix) | 500 | 500 | 500 | 500 |
| Carbon Black Content, % ⁽²⁾ | ASTM D1603 | 2-3 | 2-3 | 2-3 | 2-3 |
| Carbon Black Dispersion | ASTM D5596 | note(2) | note(2) | note(2) | note(2) |
| Oxidative Induction Time, mins | ASTM D8117 | 100 | 100 | 100 | 100 |
| Oven Aging at 85°C Standard OIT, % | ASTM D5721 ASTM D8117 | 55 | 55 | 55 | 55 |
| UV resistance ⁽³⁾ High Pressure OIT, % | ASTM D7238 ASTM D5885 | 50 | 50 | 50 | 50 |
| Surface resistivity, ⁽⁴⁾ ohms/sqm | ASTM D257 | <1x10 ⁵ | <1x10 ⁵ | <1x10 ⁵ | <1x10 ⁵ |
| Roll Width, m | | 7/8 | 7/8 | 7 | 7 |
| Roll Length, m | | 140 | 105 | 84 | 70 |
| Roll Area, m ² | | 980/1120 | 735/840 | 588 | 490 |

NOTES:

(*) All values are Minimum average value unless otherwise specified.

- (1). Machine direction (MD) and cross machine direction (XMD) average values should be on basis of 5 test specimens each direction.
Yield elongation is calculated using a gauge length of 33 mm.
Break elongation is calculated using a gauge length of 50 mm.
- (2). Carbon black dispersion for 10 different views: all 10 in Categories 1 or 2. The carbon black content of conductive layer is higher than 3%.
- (3). UV resistance is base on percent retained value regardless of the original HP-OIT value.
- (4). Test by Megohmmeter Direct-Reading.

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