

# TECHNICAL DATA SHEET OF RPE Woven Geomembrane

20 MILS

| Sr. No | Properties                 | Test Method | Typical Value                                                        |
|--------|----------------------------|-------------|----------------------------------------------------------------------|
| 1      | Thickness                  | ASTM D 1777 | 20 mil                                                               |
| 2      | Grab Tensile (N)           | ASTM D 7004 | MD 345 lb (1535)                                                     |
|        |                            |             | TD 339 lb (1507)                                                     |
| 3      | Strip Tensile (N/5cm)      | ASTM D 7003 | MD 185 lb/in (1650)<br>TD 122 lb/in (1088)                           |
| 4      | Tongue Tear-large scale(N) | ASTM D 5884 | MD 76 lb (336)<br>TD 79 lb (352)                                     |
| 5      | Mullen Burst               | ASTM D 751  | 570 psi (3930 kPa)                                                   |
| 6      | Hydrostatic Resistance     | ASTM D 751  | 312 psi (2151 kPa)                                                   |
| 7      | Puncture Resistance        | ASTM D 4833 | 110 lb (492 N)                                                       |
| 8      | CBR Static Puncture        | ASTM D 6241 | 739 lb (3288 N)                                                      |
| 9      | Dimensional Stability      | ASTM D 1204 | MD - 2.9 %<br>TD - 0.6 %                                             |
| 10     | Accelerated UV Weathering  | ASTM G 154  | >90 % strength Retention after<br>2000 hrs@0.77 W/m <sup>2</sup> /nm |

**Address:** P2, Prime Industrial and Logistics Hub, Vadala Road,  
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24 MILS

| Sr. No | Properties                 | Test Method | Typical Value                                                        |
|--------|----------------------------|-------------|----------------------------------------------------------------------|
| 1      | Thickness                  | ASTM D 1777 | 24 mils                                                              |
| 2      | Grab Tensile (N)           | ASTM D 7004 | MD 345 lb (1535)                                                     |
|        |                            |             | TD 339 lb (1507)                                                     |
| 3      | Strip Tensile (N/5cm)      | ASTM D 7003 | MD 262 lb/in (2334)<br>TD 295 lb/in (2623)                           |
| 4      | Tongue Tear-large scale(N) | ASTM D 5884 | MD 96 lb (426)<br>TD 107 lb (476)                                    |
| 5      | Mullen Burst               | ASTM D 751  | 570 psi (3930 kPa)                                                   |
| 6      | Hydrostatic Resistance     | ASTM D 751  | 355 psi (2448 kPa)                                                   |
| 7      | Puncture Resistance        | ASTM D 4833 | 151 lb (672 N)                                                       |
| 8      | CBR Static Puncture        | ASTM D 6241 | 1212 lb (5394 N)                                                     |
| 9      | Dimensional Stability      | ASTM D 1204 | MD - 2.9 %<br>TD - 0.6 %                                             |
| 10     | Accelerated UV Weathering  | ASTM G 154  | >90 % strength Retention after<br>2000 hrs@0.77 W/m <sup>2</sup> /nm |

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# TECHNICAL DATA SHEET OF RPE Woven Geomembrane

30 MILS

| Sr. No | Properties                 | Test Method | Typical Value                                                        |
|--------|----------------------------|-------------|----------------------------------------------------------------------|
| 1      | Thickness                  | ASTM D 1777 | 30 mils                                                              |
| 2      | Grab Tensile (N)           | ASTM D 7004 | MD 350 lb (1556)                                                     |
|        |                            |             | TD 334 lb (1488)                                                     |
| 3      | Strip Tensile (N/5cm)      | ASTM D 7003 | MD 319 lb/in (2844)<br>TD 298 lb/in (2656)                           |
| 4      | Tongue Tear-large scale(N) | ASTM D 5884 | MD 85 lb (380)<br>TD 87 lb (388)                                     |
| 5      | Mullen Burst               | ASTM D 751  | 1102 psi (7598 kPa)                                                  |
| 6      | Hydrostatic Resistance     | ASTM D 751  | 540 psi (3723 kPa)                                                   |
| 7      | Puncture Resistance        | ASTM D 4833 | 182 lb (812 N)                                                       |
| 8      | CBR Static Puncture        | ASTM D 6241 | 1126 lb (5010 N)                                                     |
| 9      | Dimensional Stability      | ASTM D 1204 | MD - 2.9 %<br>TD - 0.6 %                                             |
| 10     | Accelerated UV Weathering  | ASTM G 154  | >90 % strength Retention after<br>2000 hrs@0.77 W/m <sup>2</sup> /nm |

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| Sr. No | Properties                 | Test Method | Test Value                                                        |                                                                   |                                                                   |
|--------|----------------------------|-------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| 1      | Thickness                  | ASTM D 1777 | 20 mil                                                            | 24 mils                                                           | 30 mils                                                           |
| 2      | Grab Tensile (N)           | ASTM D 7004 | MD 345 lb (1535)                                                  | MD 345 lb (1535)                                                  | MD 350 lb (1556)                                                  |
|        |                            |             | TD 339 lb (1507)                                                  | TD 339 lb (1507)                                                  | TD 334 lb (1488)                                                  |
| 3      | Strip Tensile (N/5cm)      | ASTM D 7003 | MD 185 lb/in (1650)<br>TD 122 lb/in (1088)                        | MD 262 lb/in (2334)<br>TD 295 lb/in (2623)                        | MD 319 lb/in (2844)<br>TD 298 lb/in (2656)                        |
| 4      | Tongue Tear-large scale(N) | ASTM D 5884 | MD 76 lb (336)<br>TD 79 lb (352)                                  | MD 96 lb (426)<br>TD 107 lb (476)                                 | MD 85 lb (380)<br>TD 87 lb (388)                                  |
| 5      | Mullen Burst               | ASTM D 751  | 570 psi (3930 kPa)                                                | 570 psi (3930 kPa)                                                | 1102 psi (7598 kPa)                                               |
| 6      | Hydrostatic Resistance     | ASTM D 751  | 312 psi (2151 kPa)                                                | 355 psi (2448 kPa)                                                | 540 psi (3723 kPa)                                                |
| 7      | Puncture Resistance        | ASTM D 4833 | 110 lb (492 N)                                                    | 151 lb (672 N)                                                    | 182 lb (812 N)                                                    |
| 8      | CBR Static Puncture        | ASTM D 6241 | 739 lb (3288 N)                                                   | 1212 lb (5394 N)                                                  | 1126 lb (5010 N)                                                  |
| 9      | Dimensional Stability      | ASTM D 1204 | MD - 2.9 %<br>TD - 0.6 %                                          | MD - 2.9 %<br>TD - 0.6 %                                          | MD - 2.9 %<br>TD - 0.6 %                                          |
| 10     | Accelerated UV Weathering  | ASTM G 154  | >90 % strength Retention after 2000 hrs@0.77 W/m <sup>2</sup> /nm | >90 % strength Retention after 2000 hrs@0.77 W/m <sup>2</sup> /nm | >90 % strength Retention after 2000 hrs@0.77 W/m <sup>2</sup> /nm |

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