



DRAINAGE COMPOSITE

Product Data Sheet

DC 401 and 402 consists of an HDPE geonet drainage core with a filter fabric bonded on one (401) or two (402) sides. The geonet core possesses 40,000 psf compressive strength, yet flexible enough to conform to irregular surfaces. Made in the U.S.A.

DC 401 is a superior quality drainage composite made by extruding two sets of HDPE strands together to form a diamond shaped net. The net is then heat laminated on one side with a 4 ounce non-woven fabric to produce DC 401 or on both sides with two layers of fabric to produce DC 402. This three dimensional structure provides excellent planar liquid flow. The DC 401 and 402 conforms to the physical property values listed below.

| <u>Net Property</u> | <u>Test method</u> | <u>Units</u> | <u>Min. Avg Roll Value</u> |
|---------------------|--------------------|-------------------|----------------------------|
| Mass per unit area | ASTM D 5261 | lbs/ft | 0.170 |
| Thickness | ASTM D-5199 | mils | 220 +/-20 |
| Density of Polymer | ASTM D-1505 | g/cm ² | 0.940 |
| Carbon Black | ASTM D-4218 | % | 2 to 3 |
| Melt Index | ASTM D-1238 | g/10min | 1 max. |
| Tensile Strength | ASTM D-5035 | lbs/in | 45 |
| Ply Adhesion | ASTM D-904 | lbs/in | 1 |
| Transmissivity * | ASTM D-4716 | g/min/ft | 8.5 |

*Transmissivity measured using water at 20 degrees C with the gradient of 1.0, between steel plates, under a confining pressure of 15,000 psf, after 15 minutes. Values may vary based on dimension of the transmissivity specimen and specific laboratory.

The DC 401 and 402 fabric sides are a nonwoven geotextile produced by needlepunching together 100% polypropylene staple fibers in a random network to form a high strength dimensionally stable fabric. The polypropylene fibers are specially formulated to resist ultraviolet light deterioration, and are inert to commonly encountered soil chemicals. The fabric will not mildew, is non-biodegradable, and is resistant to damage from insects and redents. Polypropylene is stable within a pH range of 2 to 13. The fabric conforms to the physical property values below:

| <u>Fabric Property</u> | <u>Test method</u> | <u>Units</u> | <u>Min. Avg Roll Value</u> |
|------------------------|--------------------|---------------------|----------------------------|
| Weight | ASTM D 5261 | oz/sy | 4.0 |
| Grab Tensile | ASTM D-4632 | lbs | 120 |
| Puncture | ASTM D-4833 | lbs | 65 |
| Water Flow Rate* | ASTM D-4491 | gpm/ft ² | 135 |
| AOS | ASTM D-4751 | US Sieve (mm) | 70 (0.212) max |
| UV Resistance | ASTM D-4355 | %/hrs | 70 @ 500 |

*At time of manufacturing. Handling may change these properties.

Roll size: Drainage net is 4.0' x 75' with three inches of 4.5' wide fabric extending beyond each side.

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