



DRAINAGE COMPOSITE

Product Data Sheet

April 2020

DC 402 consists of an HDPE geonet drainage core with a filter fabric bonded on 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 402 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 with a 4 ounce non-woven fabric on both sides with two layers of fabric to produce DC 402. This three dimensional structure provides excellent planar liquid flow. The DC 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 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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