

Woven Geotextile - FDOT APL Data Form

Company and Contact Information									
App. Date:		Company Name:			Company Type:				
Contact:			E-mail:		Phone:				
Product Information									
Product Name:					Prod. Structure:				
Structural Type(s) Request: <input type="checkbox"/> R-1 <input type="checkbox"/> R-2 <input type="checkbox"/> R-3 <input type="checkbox"/> R-4 <input type="checkbox"/> R-5					Material:		Axial Type:		
Specs 985 Physical Requirements (Test Results)									
Property Test Method				MARV/Design Value		Structural App. Type		Test Method	
Permittivity (sec^{-1})						R-1,2,3,4,5		ASTM D4491	
UV Stability (Min. Retained Strength @ 500 hrs.)						R-3		ASTM D4355	
Puncture Strength (lbs)						R-5		ASTM D6241	
Grab Strength (lbs)	Machine Direction							ASTM D4632	
	Cross Direction								
Tear Strength (lbs)	Machine Direction							ASTM D4533	
	Cross Direction								
Apparent Opening Size (A.O.S) mm						R-1,2,3,4,5		ASTM D4751	
Tensile Strength (lbs/ft)	Machine Direction	2% Strain				R-1,3		ASTM D4595	
		5% Strain				R-2,3,4,5			
		10% Strain				R-1,2,3,4,5			
		Ultimate (T_{ult})							
		Strain @ T_{ult}							
	Cross Direction	2% Strain				R-1,3			
		5% Strain				R-2,3,4,5			
		10% Strain				R-1,2,3,4,5			
		Ultimate (T_{ult})							
		Strain @ T_{ult}							
Coefficient of Direct Sliding, C_{ds} (dim.)						R-1,2,3		ASTM D5321	
Coefficient of Interaction, C_i (dim.)						R-3		ASTM D6706	
Scale Correction Factor, α (dim.)						R-3			
Creep Reduction Factors (RF_{CR})		Creep-Rupture				R-2,3		ASTM D5262/D6992	
		2% Strain							
		5% Strain							
Installation Damage (RF_{ID})		Sand				R-2,3,4		AASHTO R69	
		Limestone							
Durability (RF_D)		-							
Joint Strength (RF_j)		Mechanical				R-2,3		GRI: GT7	
		Sewn						ASTM D4884	
Limitations/Notes				Structural Application					
Reduction factors for creep are based on a 100-year design life.				Type		Description			
				R-1		Geosynthetic Reinforced Soil (GRS-IBS)			
				R-2		Reinforcement of foundations over soft soils (FDM Ch.263)			
				R-3		Reinforced Soil Slopes (FDM, Ch.263)			
				R-4		Reinforced Embankment (SFH, App. E)			
				R-5		Construction Expedient			
Product Evaluation and Audit Solutions Program:						DataMine Number:			
Mnftr's. Technical Data Sheet Link:									