



Product Data Sheet

■ FX™-900SRF

FX™-900SRF is a specialty woven soil reinforcement geotextile that is manufactured specifically for use in the construction of steepened slopes, embankments and wrapped-face retaining walls. Woven of high tenacity, high molecular weight multifilament polyester yarns in the warp or “reinforcing” direction, FX™-900SRF is resistant to UV degradation and biological and chemical environments normally found in soils.

PROPERTY	SYMBOL	TEST METHOD	DATA	
			METRIC	ENGLISH
<input type="checkbox"/> Tensile Properties			kN/m	lb/ft
MD – Ultimate	T_{ult}	ASTM D 4595	152.7	10460
MD – Ultimate Strain at Failure	ϵ_{ult}	ASTM D 4595	13.0%	
MD – Tensile Strength @ 5% Strain	$T_{5\%}$	ASTM D 4595	47.6	3262
MD – Creep Reduced Strength	T_i	ASTM D 5262	89.8	6153
<input type="checkbox"/> Reduction Factors				
Creep	RF_{CR}	ASTM D 5262	1.67	
Durability (5 < pH < 8)	RF_D	GRI: GG7 & GG8	1.15	
Installation Damage:				
Soil Type 1 (Gravel): 8mm D ₅₀	RF_{ID}	ASTM D 5818	1.32	
Soil Type 2 (Concrete Sand): 0.65mm D ₅₀			1.14	
Soil Type 3 (Silty Sand): 0.11mm D ₅₀			1.09	
<input type="checkbox"/> Design Strength Properties				
Long Term Design Strength / Allowable Tensile Strength				
T_{ult} / RF for Soil Type 1: Gravel	$LTDS/T_{al}$	NCMA/FHWA	60.2	4126
T_{ult} / RF for Soil Type 2: Concrete Sand			69.7	4778
T_{ult} / RF for Soil Type 3: Silty Sand			72.9	4997
<input type="checkbox"/> Design Interaction Properties				
Coefficient of Interaction				
Soil Type 1	C_i	ASTM D 6706	0.90	
Soil Type 2				
Soil Type 3				
Coefficient of Direct Sliding				
Soil Type 1	C_{ds}	ASTM D 5321	0.80	
Soil Type 2				
Soil Type 3				
<input type="checkbox"/> Scale Correction Factor	α		1.00	
<input type="checkbox"/> Dimensional Properties				
		Units		
		SI	US	
Mass Per Unit Area		g/m ²	oz/yd ²	ASTM D 5261
Roll Width		m	ft	340.8
Roll Length				10.1
Area Per Roll		m ²	yd ²	Measured
Estimated Roll Weight		kg	lbs	2.1
				7.0
				91.4
				320
				195.0
				249
				66.4
				159

The values reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.

The properties reported above are effective 10/16/03 and are subject to change without notice.

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