

1W70
1Y87
1Y86
1Q86

Roofing Reinforcement Fibers

State-of-the-art solutions for optimizing membrane performance.

THESE HIGH-STRENGTH, HIGH-TENACITY, HIGH-MODULUS, LOW SHRINKAGE POLYESTER FIBERS ARE IDEAL FOR MEMBRANE REINFORCEMENT. THEY PROVIDE EXCELLENT MECHANICAL QUALITY, LOW CREEP STRAIN, OPTIMUM SHRINKAGE PROPERTIES AND DURABILITY AGAINST CHEMICAL AND ENVIRONMENTAL DEGRADATION. IT CAN ALSO BE MANUFACTURED WITH ANTI-WICK PROPERTIES TO PREVENT MILDEW.

PHYSICAL PROPERTIES

Physical Properties	A.C.E.™			Substraight®			
	1W70	1W70	1W70S	1Y87	1Y86	1Q86	
Denier (others available) (denier)	1000	1000	1000	1000	1000	1000	
Filaments (#)	192	140	192	192	192	192	
Tenacity	(g/denier)	9.2	9.1	9.0	7.9	8.0	7.8
	(cN/d.tex.)	8.1	8.0	7.9	7.0	7.1	6.9
Elongation @ 10 lbs. (%)	6.3	6.3	6.2	13.0	12.5	10.8	
Elongation @ Break (%)	14.0	14.0	14.0	23.0	22.0	20.0	
Thermal Shrinkage @ 177°C* (%)	9.0	8.9	7.5	0.3	1.2	1.1	
Thermal Shrinkage @ 177°C ** (%)	14.5	14.4	11.0	1.9	3.1	2.5	
Thermal Shrinkage @ 190°C *** (%)	16.5	16.3	15.0	3.3	4.7	3.5	
WickGard® Option Available	Yes	Yes	Yes	Yes	Yes	Yes	

* Hot Air Shrinkage. Tested @ 177°C with 0.05 gpd load for 2 minutes in Testrite.

** Free Hot Air Shrinkage. Tested @ 177°C with 0.01 gpd load for 2 minutes in Testrite.

*** Free Hot Air Shrinkage. Tested @ 190°C with 0.01 gpd load for 15 minutes in Testrite.

Product Characteristics

A leading supplier to the roofing industry, Performance Fibers offers a broad portfolio of polyester products with global availability. Operational benefits include:

Proprietary low-wick overfinish treatment, available on all product types.

A broad range of shrinkage characteristics to fit application treatment temperatures.

A wide range of deniers available on package yarn from 220 up to 60,000.

Longer life cycle, higher-strength single-ply roofing fabrics.

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