



PROPERTY	TEST METHOD	MINIMUM AVERAGE ROLE VALUES (MARV)
Wide Width Tensile Strength	ASTM D 4595	>5,125 lbs/ft - MD x >4,275 lbs/ft - TD
Wide Width Test Elongation	ASTM D 4595	<10% - MD x <7% - TD
Grab Tensile Strength	ASTM D 4632	>445 lbs - MD x >410 lbs - TD
CBR Puncture	ASTM D 6241	>1,800 lbs
Trapezoidal Tear	ASTM D 4533	>210 lbs - MD x >195 lbs - TD
Apparent Opening Size	ASTM D 4751	Sieve #70
Water Flow Rate	ASTM D 4491	>32 gpm/sf
UV Stability	ASTM D 4355	>90% strength retained - MD
Permittivity	ASTM D4491	0.43 sec-1
Pore Size - O95	ASTM D6767	180 microns

The below table shows a comparison of 14-gauge wire-backing fence and 9-gauge wire-backing fence structural characteristics versus SMARTfence 42. The modulus of elasticity is a measure of material stiffness.

### STRUCTURAL COMPARISONS BETWEEN WIRE AND CHAIN-LINK BACKING VERSUS SMARTFENCE 42:

	14-Gauge Wire Fence 2"X4" Mesh	9 Gauge Wire Fence 2 3/8" Mesh	SMARTfence® 42
Average Breaking Tensile Strength (lb/ft)	710	4,100	>5,125 (Average)
Average Modulus of Elasticity (lb/ft)	2,600 lengthwise 19,400 widthwise	21,100 lengthwise 21,700 widthwise	>48,000 lengthwise >38,000 widthwise



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**SMARTFENCE 42**  
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