

# LLumar® SCL SR PS13 Physical Properties



## Physical Properties:

Film Thickness	0.013 inches, 325 microns (nominal, without liner)
Appearance	Clear
Film Structure	Multi-ply
Tensile Strength – Machine Direction	19,180 psi
Tensile Strength – Transverse Direction	21,643 psi
Break Strength – Machine Direction	268 lbf (pounds force)
Break Strength – Transverse Direction	297 lbf
Elongation at Break – Machine Direction	171%
Elongation at Break – Transverse Direction	163%
Peel Strength	3.36 lbf/in*
Puncture Strength	212.3 lbf
Tear Strength – Machine Direction	45.9 lbf
Tear Strength – Transverse Direction	48.0 lbf
Tear Strength – Machine Direction	3,328 lbf/in
Tear Strength – Transverse Direction	3,475 lbf/in

\*Value for SCL SR PS4. Test method requires a 180 degree peel which cannot be achieved with a thick film such as SCL SR PS13 without peeling the film from the substrate prior to beginning the test.

## Test Methods:

Tensile Strength	ASTM D882
Break Strength	ASTM D882
Elongation at Break	ASTM D882
Peel Strength	ASTM D3330
Puncture Strength	ASTM D4830
Tear Strength	ASTM D1004

All values above are results from independent lab testing. Test reports available on request.

LLumar SCL SR PS13 complies with ANSI Z97.1/CPSC impact test requirements. Test reports available on request.

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