



<b>Properties</b> (cross-linked*)	Test Method	Unit	Result
Elongation	ASTM D412	%	600-800
Secant modulus	ASTM D412	MPa	<20
Tensile strength at break	ASTM D412	MPa	≥18
Hardness shore A	ASTM D2240	-	≥70
Refractive Index	ISO 489	-	1.48
Water absorption	ASTM D570	%	<0.1
WVTR	ASTM D412	g-m2 24h	≤30
Gel Content (≥85% recomm.) (VS103 can reach 95+%)	TPI Method	%	≥85
UV cutoff	TPI Method	nm	360
Haze	TPI Method	%	≤0.3
Transparency (360-1100nm)	TPI Method	%	>90
Yellowness Index of UV exposure test	TPI Method	ΔYI	≤4
Yellowness Index of UV exposure test (85°C, 85%RH, 1000h)	TPI Method	ΔYI	≤2

\*results depend on the lamination conditions



<b>Stability</b>			
Ball drop test - Security glazing	DIN EN 365	44.2	P1A
Pendulum test - Impact test	DIN EN 12600	ongoing	
Durability test - Heat, humidity and UV	DIN EN ISO 12543-4	ongoing	
CE marking support	upon completion of the testing -mid 2019		
TIS1222-2539 (1996)			
Penetration resistance (pendulum)	pass		
Impact resistance (ball drop)	pass		
Resistance to light (UV 750 W, 45°C, 100 h)	pass		
Resistance to heat (boil test, 100°C, 2 h)	pass		



If you need any specific testing or more information please contact us.



### Processing

Minimum temperature (for outdoor use)	110°C / 230 F
Maximum temperature	140°C / 284 F
Production process	Vacuum - Nip-roll Autoclave lamination



### Dimensions & Packaging

Thickness	min. 0.38 mm - max. 1.14	
Width	max. 2,200 mm	
Length	0.38 mm - 100 m 0.76 mm - 50m 1.14 mm - 35m	Custom thickness, width and packaging on request
Core	76 mm - 152mm	
Packaging	In cardboard boxes	



### Storage recommendation

Temperature	< 30°C / 85 F
Humidity	< 80%
Shelf life	use by 9 months after date of production

For more information please contact



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