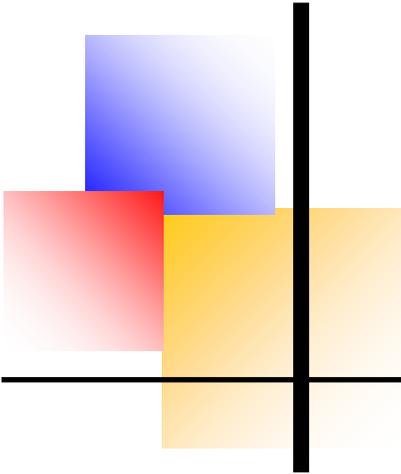


VANGUARD SHRINK FILMS



CXV

High performance shrink film

General Purpose Multilayer Shrink Film

Vanguard CXV is a clear biaxially oriented multilayer polyolefin shrink film with the versatility to shrink wrap a wide variety of products. Vanguard CXV is a cost effective alternative to crosslinked films. This film combines good gloss and sparkle with excellent shrink capabilities and can be run on most shrink wrapping equipment.



VSF **VANGUARD**
SHRINK FILMS
www.vanguardshrinkfilms.com

FOR YOUR TOUGHEST APPLICATIONS

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CXV Highlights:



- ◆ Excellent sparkle and clarity for retail packaging needs
- ◆ Makes strong durable seals with impulse wire systems
- ◆ Fast seals over a broad sealing temperature range
- ◆ High tensile strength and puncture resistance for added toughness
- ◆ Excellent machineability on semi-automatic and automatic wrappers
- ◆ High percentage balanced shrink for attractive shrink appearance
- ◆ Corrosion free sealing with no fumes or wire build up
- ◆ Will not embrittle with age
- ◆ Works well on a wide range of end use applications
- ◆ Complies with FDA and USDA regulations governing direct contact food packaging

Typical Properties	ASTM Test Method	50G	60G	75G	100G
Minimum use temperature (F)		-40°	-40°	-40°	-40°
Haze (%)	D1003	1.8	1.9	2.1	2.4
Gloss (%)	D2457	135	135	135	130
Tensile strength (psi)	D882	17,000	17,000	17,000	17,000
Elongation at break (%)	D882	105	110	110	110
Stiffness modulus (psi)	D882	85,000	85,000	85,000	85,000
Tear strength (gms/ply)	D1922	7	10	12	14
Coefficient of friction (film to film:kinetic)	D1894	0.23	0.25	0.25	0.25
WVTR (gms/100si/24hrs)	F1249	2.0	1.8	1.6	1.3
Unrestrained shrink (%) @ 260°F	D2732	60	60	60	60

This information represents our judgment based on tests performed, but Vanguard Shrink Films, Inc. assumes no liability whatsoever in connection with the use of this information or suggestions contained herein. They are given and accepted at the user's risk. We urge purchasers to conduct independent tests to determine final suitability for their specific application.