HIGH BARRIER CLEAR THERMOFORMING FILM

QuenchTek HB®
Thermoforming Barrier Film

High-barrier thermoforming films are ideal for food products that require an extended shelf life and protection from spoilage and degradation. These films provide significantly enhanced protection against oxygen, moisture vapor, and aroma transfer. They feature a core layer made of EVOH, which serves as an excellent oxygen barrier.

TECHNICAL SPECIFICATIONS

PHYSICAL PROPERTIES		UNIT	TEST METHOD	VALUE										
Gauge		µm	ASTM F2251	80	90	100	125	150	175	200	225	250	275	300
Yield		m^2/kg	-	0.0128	0.0113	0.0102	0.0082	0.0068	0.0058	0.0051	0.0045	0.0041	0.0037	0.0034
Tensile Strength	MD	MPa	ASTM D882	38	37	36	34	33	32	31	30	29	28	27
	TD			34	33	32	31	30	30	29	30	29	28	27
Elongation	MD	%	ASTM D882	450										
	TD			450										
COF		-	ASTM D1894	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
THERMAL PROPERTIES														
Seal Strength		N/15	ASTM F88	28	30	32	40	45	50	55	60	65	70	75
OPTICAL PROPERTIES														
Haze		%	ASTM D1003	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	13.0
BARRIER PROPERTIES														
OTR (23°C, dry)		cc/ m^2.d.bar	ASTM D3985	7.0	6.0	5.0	4.0	3.0	2.5	2.5	2.0	2.0	1.5	1.5
WVTR (36°C, 90%RH)		g/m^2.d	ASTM F1249	8.5	7.5	6.5	5.0	4.0	3.5	3.0	2.5	2.0	2.0	2.0

ADDITIONAL INFORMATION

Application
This product can be frozen or boiled in water and the recommended application temperature is less than 95 °C. All the raw material for manufacturing these barrier films meets the requirement of USFDA, EU/10/2011, and FSSAI, thus ensuring food safety at all times.

Equipment Parameters
Pre-heat temperature 90~100°C;Pre-heat time 1~2s; Sealing temperature135~145°C, Sealing time 1~2s.

Storage & Shelf Life
This barrier film should ideally be placed in a clean, cool and dry area where it does not come in direct contact with mordant chemical goods and or any other injurant.
The product shelf life is 12 months from the date of dispatch. To protect the properties of the film, it is advisable to store it in dry and hygienic conditions, away from moisture and direct sunlight.

Disclaimer
The technical information provided by Bagla Group is intended as general guidance only. While the data and recommendations are based on our testing and are believed to be accurate and reliable, they should not be considered a substitute for user evaluation. Performance characteristics may vary depending on processing conditions and specific applications. Users are advised to independently verify the suitability and effectiveness of the product for their intended use. Bagla Group assumes no liability for outcomes resulting from the use of this information.