

PA - FREE THERMOFORMING FILM (100μ)

QuenchTek Mono is a high-barrier thermoforming film built on a polyethylene (PE) base with an EVOH oxygen-barrier layer. By removing polyamide (PA) from the structure, the film stays within a single polymer family making it a true mono-material film that is recyclable in existing PE streams, while retaining the high oxygen barrier and deep-draw performance of a conventional PA/EVOH film.



0%

PA (POLYAMIDE)

~90%+

POLYETHYLENE

EVOH

HIGH O₂ BARRIER

PPWR

DESIGN FOR
RECYCLING

TECHNICAL SPECIFICATIONS

PHYSICAL PROPERTIES		UNIT	TEST METHOD	VALUE
Total Thickness		μm	ASTM F 2251	100 ± 5 %
Avg. GSM		g/m ²	ASTM E 252	94 ± 5%
Yield		m ² /kg	ASTM D 4321	10.63
Tensile Strength	MD	kgf/cm ²	ASTM D 882	>220
	TD	kgf/cm ²	ASTM D 882	>180
Elongation	MD	%	ASTM D 882	>420
	TD	%	ASTM D 882	>400
Dart Impact Strength @152.4cm		g	ASTM D 1709	>300
Puncture Resistance		N	DIN EN 14477	>3.5
COF F/F		-	ASTM D 1894	0.20 ± 0.10
COF F/M		-	ASTM D 1894	0.25 ± 0.10
Surface Tension Outer Side		dyne/cm	ASTM D 2578	As Per Request
OPTICAL PROPERTIES				
Opacity (For Colored Film)		%	ASTM D 1003	>80
Haze (For Clear Film)		%	ASTM D 1003	<7
Gloss @ 60°		GU	ASTM D 2457	>100
THERMAL PROPERTIES				
Seal Strength		kg/15mm	ASTM F 88	>2.0
Peal Strength		N/15mm	ASTM F 88	<5.0
BARRIER PROPERTIES				
WVTR		gm/m ² /day	ASTM F 1249	<4.0
OTR		cm ³ /m ² .day	ASTM D 3985	<5.0

DISCLAIMER

- The guaranteed storage life of the packaging material is 12 months from the date of manufacture, unless the transport packaging of the pallets is damaged or the terms of transportation and storage are violated.
- Store under a roof that protects the product from direct sunlight, at 15–25°C and 40–60% relative humidity, and at least 1m from heating appliances.
- Traces of colour are permitted in the film if they are not visible in a single film sheet.