



CLEARFOIL®

TRANSPARENT ULTRA-HIGH BARRIER

Description

Rollprint's ClearFoil® family of products offer high moisture vapor and oxygen barrier without the use of aluminum foil. The barrier-coated films can be laminated or extrusion coated for a weld or peelable seals to most any rigid or flexible packaging material. Several barrier levels are available to meet most performance/cost requirements.

Market Applications

ClearFoil® structures are appropriate for applications where high barrier and product visibility are required. The table below provides guidance on ClearFoil® ultra-high barrier material selection.

Product Name	Barrier Coating	Sterilization Method*				MV Barrier (g/100in ² / 24 hrs)	O ₂ Barrier (cc/100in ² / 24 hrs)	MV Barrier (g/m ² /24 hrs)	O ₂ Barrier (cc/m ² /24 hrs)	Relative Cost
		Retort/ Autoclave	Hot-fill/ Low Temp. Pasteurization	Gamma	EtO					
ClearFoil® W2	SiO _x	X	X	X	X	0.1	0.02	1.6	0.31	Low
ClearFoil® V	Al ₂ O ₃			X	X	0.02	0.05	0.93	0.078	Low
ClearFoil® V2	Al ₂ O ₃	X	X	X	X	0.05	0.01	0.78	0.16	Low
ClearFoil® M	Al ₂ O ₃		X	X	X	0.02	0.02	0.31	0.31	Low-Avg.
ClearFoil® M2	Al ₂ O ₃	X	X	X	X	0.15	0.02	2.3	0.31	Avg.
ClearFoil® F	SiO _x			X	X	0.02	<0.003	0.31	<0.047	High
ClearFoil® A	SiO _x	X	X	X	X	0.04	0.04	0.62	0.62	High
ClearFoil® X	Al ₂ O ₃			X	X	0.003	0.004	0.047	0.06	Avg.-High
ClearFoil® Z	Al ₂ O ₃			X	X	0.0008	0.0008	0.012	0.012	High

* Suitability for retort and gamma sterilization is dependent on sealant chemistry

Oxygen barrier was tested at 0% relative humidity and 73°F. Moisture vapor was tested at 100% humidity and 100°F. Barrier numbers represent typical values and are not limiting specifications.

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