

Resin Information
Comparison of Bottle Polymer Materials & Properties

Material	MVTR*	O ₂ **	CO ₂ **	Max Hot Fill (C)
Porcelene™ (HDPE)	0.5	4,000	18,000	93
HDPE	0.5	4,000	18,000	93
PP	0.5	3,500	7,000	93
LDPE	1.0	9,500	42,000	66
PS	10.0	5,000	18,700	82
PVC	3.0	150	380	60
PC	10.0	4,500	8,225	93
Un-O-PET	4.0	100	720	60
O-PET	2.0	75	540	49
PET-G	4.0	400	1,200	60

Guide to Abbreviations: Resins

LDPE: Low Density Polyethylene
HDPE: High Density Polyethylene
PP: Polypropylene
BOPP: Bi-Axially Oriented Polypropylene
PC: Polycarbonate
UN-O-PET: Un-oriented Polyethylene Terephthalate
O-PET: Oriented Polyethylene Terephthalate
PET-G: Polyethylene Terephthalate Glycol

Guide to Abbreviations: Characteristics

MVTR: Moisture Vapor Transmission
O₂: Oxygen Barrier
CO₂: Carbon Dioxide Barrier

*gm/100 in. 2/24 hr./ml
**cc/m 2/24 hr./ml

***Note: In most cases, the smaller the numerical value, the more favorable the characteristic. MVTR value multiplied x 15.5 = MVTR in gas/m²/24 hrs./ml**

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