

## Commonly used materials for the manufacture of clamshell and two piece food containers.

Material Type			
		ops 👌	PP 🔬
Material	Polyethylene	Polystyrene	Polypropylene
Clarity	Excellent	Excellent	Good
FDA Compliant to	CFR 21 #177.1630	CFR 21 #177.1640	CFR 21 #177.1520
Specific Gravity (g/cc)	1.33	1.05	0.9
Temperature Range <sup>(1)</sup>	0°F – 140°F	20°F – 170°F	0°F – 220°F
Barrier Properties			
Water Vapor	Good	Fair	Excellent
Gas	Excellent	Fair	Excellent
Oxygen Transmission Rate	5 - 15	350	150 - 220
(CC/100 in <sup>2</sup> - 24hr - atm)			
Chemical Resistance			
Acids	Good	Good	Good
Strong Oxidizing Acids	Excellent	Poor	Excellent
Alkalies	Fair	Excellent	Excellent
Hydrocarbon Solvents	Excellent	Poor	Good to Excellent
Alcohols	Excellent	Excellent	Excellent
Fat, Grease & Oil	Excellent	Good	Good
Sugars, Syrups	Excellent	Excellent	Excellent
Temperature Tolerance			
Blast Freezer	Poor	Poor	Poor
Freezer	Good	Fair	Good
Refrigerated	Excellent	Very Good	Excellent
Heat Lamps	Poor	Good	Excellent
Microwave	Poor	Fair	Good
Oven	Not Recommended	Not Recommended	Not Recommended

<sup>(1)</sup> Temperature specifications may vary depending on components used to make raw materials.

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