





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

Material Type				
	<b>PET/RPET</b> 	<b>OPS</b> 	<b>L-10A</b> 	<b>PP</b> 
<b>Material</b>	Polyethylene	Polystyrene	Polystyrene	Polypropylene
<b>Clarity</b>	Excellent	Excellent	Very Good	Good
<b>FDA Compliant to</b>	CFR 21 #177.1630	CFR 21 #177.1640	CFR 21 #177.1640	CFR 21 #177.1520
<b>Specific Gravity (g/cc)</b>	1.33	1.05	1.05	0.9
<b>Temperature Range<sup>(1)</sup></b>	0°F - 140°F	20°F - 170°F	-10°F - 170°F	0°F - 240°F
Barrier Properties				
<b>Water Vapor</b>	Good	Fair	Fair	Excellent
<b>Gas</b>	Excellent	Fair	Fair	Excellent
<b>Oxygen Transmission Rate (CC/100 in<sup>2</sup> - 24hr - atm)</b>	5 - 15	350	350	150 - 240
Chemical Resistance				
<b>Acids</b>	Good	Good	Good	Good
<b>Strong Oxidizing Acids</b>	Excellent	Poor	Poor	Excellent
<b>Alkalies</b>	Fair	Excellent	Excellent	Excellent
<b>Hydrocarbon Solvents</b>	Excellent	Poor	Poor	Good to Excellent
<b>Alcohols</b>	Excellent	Excellent	Excellent	Excellent
<b>Fat, Grease &amp; Oil</b>	Excellent	Good	Good	Good
<b>Sugars, Syrups</b>	Excellent	Excellent	Excellent	Excellent
Temperature Tolerance				
<b>Blast Freezer</b>	Poor	Poor	Poor	Poor
<b>Freezer</b>	Good	Fair	Very Good	Good
<b>Refrigerated</b>	Excellent	Very Good	Excellent	Excellent
<b>Heat Lamps</b>	Poor	Good	Good	Excellent
<b>Microwave</b>	Poor	Fair	Fair	Good
<b>Oven</b>	Not Recommended	Not Recommended	Not Recommended	Not Recommended

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