



Packaging Material Properties Guideline

Material	CPET	APET	HO-PP	CO-PP	PE	PS	PLA	ALU	PAPERBOARD
SPI Resin Identification Code (recycling code)	1	1	5	5	2	6	7	41	23
Material properties									
Temperature Range	-40 °c to +220 °c	-40 °c to + 70 °c	+2 °c to 121 °c	-40 °c to +121 °c	-40 °c to +121 °c	-40 °c to +70 °c	-0 °c to +40 °c	-40 °c to +350 °c	-40 °c to +220 °c
Appearance	Opaque	Glass Clear	Translucent	Translucent	Semi-Opaque	Glass Clear	Glass Clear	Opaque	Opaque
Color Variants	Black, White	Colored	Clarified, Colored	Clarified, Colored	Colored	Colored	Colored	Metallic	Colored
Density	1.30 g/cm ³	1.35 g/cm ³	1.01 g/cm ³	0.91 g/cm ³	0.95 g/cm ³	1.05 g/cm ³	1.21 g/cm ³	2.70 g/cm ³	N/A
Applications									
Cold Foods / Dry Foods		x	x	x	x	x	x		x
Fresh Meats	x	x	x	x	x			x	
Hot-Fill / Prepared	x		x	x	x			x	x
MAP packaging	x	x	x	x	x	x		x	
Pasteurised	x		x	x	x			x	
Chilled		x	x	x	x	x	x	x	x
Frozen	x	x		x	x	x		x	x
Conventional Oven	x							x	x
Microwave Oven	x		x	x	x			x	x
Grill								x	
Barrier Properties									
Typical Application Shelf-Life	Long-Term	Long-Term	Med-Term	Med-Term	Med-Term	Short-Term	Short-Term	Long-Term	Short-Term
Oxygen Barrier cc/m²/24h	20-40	20-40	1300-2000	1300-2000	1500-2000	1500-1900	<50	Impervious	N/A
Water Vapour Barrier cc/m²/24h	11-16	11-16	6-8	6-8	6-8	12-24	<12	Impervious	N/A

This data should be used as average typical properties and not as a specification
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