








CSI™ is an injection molder of plastic packaging for the cosmetics and personal care industries.

We have prepared this Resin Comparison Chart to help you better understand the properties of various resins available so that you may make an informed decision about your product packaging needs.

	 PETE	 HDPE	 V	 LDPE	 PP	 PP	 PS	 OTHER
PROPERTIES	Polyethylene Terephthalate	High Density Polyethylene	Polyvinyl Chloride (PVC)	Low Density Polyethylene	Polypropylene and PIR	Bio-Based Biopropylene®	Polystyrene	Other Plastics
Clarity	Clear	Translucent	Clear	Translucent	PP: Translucent PIR: Opaque	Opaque	Clear	Varies
Moisture Barrier	Fair to Good	Good to Excellent	Fair	Good	Good to Excellent	Fair to Good	Poor to Fair	Varies
Oxygen Barrier	Good	Poor	Good	Poor	Poor	Poor	Fair	Varies
Distortion Temperature	145°F	160°F	150°F	160°F	212°F	160°F	150°F	Varies
Rigidity	High	Moderate	High	Low	Moderate	Low	High	Varies
Resistance to Impact	Excellent	Excellent	Good	Excellent	Fair	Fair to Good	Poor	Varies
Resistance to Cold	Good	Excellent	Fair	Excellent	Poor to Fair	Excellent	Poor	Varies
Resistance to Sunlight	Good	Fair	Poor to Good	Fair	Fair	Fair	Poor to Fair	Varies
Resistance to Acids	Fair	Good	Good	Medium	Good	Medium	Medium	Varies
Resistance to Alcohol	Good	Good	Very Good	Good	Good	Good	Fair	Varies
Resistance to Alkalis	Poor	Very Good	Good	Very Good	Very Good	Very Good	Good	Varies
Resistance to Solvents	Good	Poor	Good	Poor	Poor	Poor	Poor	Varies

This chart is meant only as a guide. Actual performance is the responsibility of the packager. Please test your products.

To place an order or get more information, please contact your CSI Sales and Customer Service Representative:

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