

# PLASTIC PROPERTIES

Resins	Polyethylene Terephthalate (PET)	Low Density Polyethylene (LDPE)	High Density Polyethylene (HDPE)	Polypropylene (PP)	Polystyrene (PS)	Polyvinyl Chloride (PVC)
Material Code System Symbols	 PETE	 LDPE	 HDPE	 PP	 PS	 PVC
Clarity	Clear	Translucent	Translucent	Translucent	Clear	Clear
Moisture Barrier	Fair to Good	Good	Good to Excellent	Good to Excellent	Poor to Fair	Fair
Oxygen Barrier	Good	Poor	Poor	Poor	Fair	Good
Maximum Commercial Temperature	120°F	120°F	145°F	165°F	150°F	140°F
Rigidity (Stiffness)	Moderate to High	Low	Moderate	Moderate to High	Moderate to High	Moderate to High
Resistance to Impact	Good to Excellent	Excellent	Good to Excellent	Poor to Good	Poor to Good	Fair to Good
Resistance to Heat	Poor to Fair	Fair	Good	Good	Fair	Poor to Fair
Resistance to Cold	Good	Excellent	Excellent	Poor to Fair	Poor	Fair
Resistance to Sunlight	Good	Fair	Fair	Fair	Fair to Poor	Poor to Good
Resistance to Acid	Fair to Good	Fair to V. Good	Fair to V. Good	Fair to Good	Fair to Good	Good
Resistance to Grease & Oil	Good	Good	Good	Good	Fair to Good	Good
Distortion Temperature	125 D to 160 D Fahrenheit	180 D to 220 D Fahrenheit	175 D to 180 D Fahrenheit	230 D to 260 D Fahrenheit	200 D to 220D Fahrenheit	140D to 150D Fahrenheit