

RESIN COMPARISON GUIDE



PET



HDPE



V



LDPE



PP



PS



OTHER

<i>Properties</i>	Polyethylene Terephthalate	High Density Polyethylene	Polyvinyl Chloride (PVC)	Low Density Polyethylene	Polypropylene	Polystyrene	Other Plastics
Clarity	Clear	Hazy Translucent	Clear	Translucent	Translucent	Clear	Plastic #7 is for Other Plastics
Rigidity	High	Moderate	High	Low	Moderate	High	
Min/Max Temp. Tolerance (°F)	-40° / 120°	-100° / 190°	30° / 140°	-100° / 150°	0° / 240°	30° / 200°	
Distortion Temperature (°F)	145°	160°	150°	110°	200°	170°	
Moisture Barrier (MTVR)	○○○	●●●●●	○○○	○○○○	●●●●●	○	
Oxygen Barrier	○○○	○	○○○	○	○	○	
Stress Crack Resistance	●●●●●	○○	●●●●●	○○○	●●●●●	○○	
Cold Resistance	○○○	●●●●●	○○	●●●●●	○	○	
Impact Resistance	○○○	●●●●●	○○○	●●●●●	○○	○	
Alcohol Resistance	○○○	○○○	●●●●●	○○○	○○○	○○	
Alkalis Resistance	○	○○○	●●●●●	○○○	○○○	○○	
Solvent Resistance	○○○	○○	○○○	○	○	○	
Oil Resistance	○○	○○○	○○○	○○○	○○○	○	
Acid Resistance	○○	○○○	○○○	○○○	○○○	○○	

○ Poor ○○ Fair ○○○ Good ○○○○ Very Good ●●●●● Excellent