

PLASTIC MATERIALS/PROPERTY CHART

Scale:
0 = Least
10 = Highest

January 6, 2000

Material Property	ABS	Celcon- Acetal- Copolymer	Acrylic - Injection Molding Grade	Acrylic - Cast	Melamine	Polycarbonate	Glass Filled Polyester	Polyethylene	Polypropylene Black Copolymer	Polypropylene Homopolymer	Polystyrene High Heat	Polystyrene High Impact	SAN	Valox	Polysulfone	Polyaryl Sulfone	
Break Resistance	7	7	3	6	5	10	6	5	6	3	3	6	4	5	6	5	
Chemical Resistance	8	8	4	4	8	6	8	9	8	8	5	5	8	7	8	8	
Flexibility	6	8	2	2	1	5	2	9	7	7	2	5	3	1	4	4	
Clarity	0	0	9	9	0	9	0	0	2-7*	0	9	0	9	0	9	9	
Recyclable	YES	YES	YES	YES	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	
Dishwasher Safe	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES**	NO	NO	YES	YES	YES	YES	
Temperature Range	0°F to 180°F 0°C to 140°C	-40°F to 212°F	32°F to 160°F	32°F to 180°F	0°F to 212°F	-40°F to 212°F	0°F to 275°F	-40°F to 180°F	32°F to 180°F	32°F to 180°F	30°F to 190°F	30°F to 190°F	0°F to 180°F	0°F to 350°F	-40°F to 300°F	-40°F to 375°F	
Manufacturing Process	All Thermo Plastic Process	Injection Molding	Bending Injection Molding	Vacuum Form Bending	Thermo Set	All Thermo Plastic Process	Thermo Set	All Thermo Plastic Process	All Thermo Plastic Process	All Thermo Plastic Process	All Thermo Plastic Process	All Thermo Plastic Process	All Thermo Plastic Process	All Thermo Plastic Process	Injection Molding	All Thermo Plastic Process	Injection Molding
☆FDA Approved	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Microwave Capable	NO	NO	NO	NO	NO	Reheat Only	YES	Reheat Only	Reheat Only	Reheat Only	NO	NO	NO	Reheat Only	YES	Yes	

* Depends on Grade

☆ All materials used by Carlisle FoodService Products are FDA approved.

** Refer to catalog for specific products that are not safe in dishwasher.

† Use for slow warming only.