













































































































































# Chemical Resistance and Physical Properties

These codes are used in the following charts.

 Excellent resistance, no attack.	 Good resistance, minor attack.	 Limited resistance, moderate attack, suitable for short term use only.
 Poor resistance, not recommended.	 No information available.	
<b>Transparency</b>		<b>Flexibility</b>
 Clear	 Translucent	 Opaque
	 Excellent	 Rigid

	LDPE	HDPE	PP	PS	ACRYLIC	PTFE	PMP	PVC	PC	PFA
Acids - dilute										
Acids - concentrated										
Alcohols										
Aldehydes										
Bases										
Esters										
Hydrocarbons Aliphatic										
Hydrocarbons Aromatics										
Hydrocarbons Halogenated										
Ketones										
Oils, Minerals										
Oil, Vegetable										
Oxidizing Agents										
Max Temp. °C	80	120	135	70	90	300	180	70	130	270
Min Temp. °C	-50	-100	0	-40	-60	-200	-180	-25	-135	-260
Autoclavable	NO	NO	YES	NO	NO	YES	YES	NO	YES	YES
Gas Sterilization	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Dry Heat Sterilization	NO	NO	NO	NO	NO	YES	YES	NO	NO	YES
Gamma Irradiation Sterilization	YES	YES	NO	YES	YES	NO	YES	NO	YES	YES
Chemical Disinfectant Sterilization	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES
Transparency	TL	TL	TL	C	C	O	C	C	C	TL
Flexibility	EX	R	R	R	R	R	R	R	R	F
Gas Permeability N <sub>2</sub>	20	3	4.4	3	-	-	65	0.4	3	-
Gas Permeability CO <sub>2</sub>	280	45	92	75	-	-	-	10.2	85	-
Gas Permeability O <sub>2</sub>	60	10	28	15	-	-	270	1.2	20	-
Water Absorption %	<0.01	<0.01	<0.02	0.05	0.3	0.3	<0.01	0.06	0.35	<0.03
Resistivity Ohm CM <sup>2</sup>	>10 <sup>15</sup>	>10 <sup>15</sup>	>10 <sup>16</sup>	>10 <sup>16</sup>	>10 <sup>14</sup>	>10 <sup>18</sup>	>10 <sup>16</sup>	<10 <sup>16</sup>	2x10 <sup>16</sup>	10 <sup>18</sup>
Specific Gravity	0.92	0.95	0.90	1.05	1.18	2.2	0.83	1.34	1.20	2.16