

# PLASTICS CHEMICAL & TEMPERATURE RESISTANCE TO SUBSTANCE GROUPS

Substance at +20 deg. C

	LDPE	HDPE	PP	PA	PTFE
Alcohols, aliphatic	●	●	●	●	●
Aldehydes	●	●	●	●	●
Alkalis	●	●	●	●	●
Esters	●	●	●	●	●
Hydrocarbons, aliphatic	●	●	●	●	●
Hydrocarbons, aromatic	●	●	●	●	●
Hydrocarbons, halogenated	●	●	●	●	●
Ketones	●	●	●	●	●
Oxidants (oxidising acids), strong	●	●	●	●	●
Acids, diluted, weak	●	●	●	●	●
Acids, concentrated, strong	●	●	●	●	●

	LOW TEMP Deg. C	HIGH TEMP Deg. C		
LDPE = Low Density Poly Ethylene	- 50	+75	High	●
HDPE = High Density Poly Ethylene	- 50	+80	Good	●
PP = Poly Propylene	- 10	+120	Marginal	●
PA = Poly amide	- 30	+ 80	Non	●
PTFE = Polytetrafluoroethylene	- 200	+260		
ABS = Acrylonitrile-butadiene-styrene co-polymer	- 40	+ 85		