






Plastics properties & chemical resistance

|  Low Density Polyethylene LDPE |  High Density Polyethylene HDPE |  Polypropylene PP |  Polymethyl-pentene OTHER |  Polystyrene PS |
|---|--|--|--|--|
| Max Temp: 176°F (80°C) | 248°F (120°C) | 275°F (135°C) | 293°F (145°C) | 158°F (70°C) |
| Min Temp: -58°F (-50°C) | -148°F (-100°C) | 32°F (0°C) | 32°F (0°C) | 32°F (0°C) |
| Autoclavable: No | No | Yes | Yes | No |
| UV Resistance: Poor | Poor | Poor | Poor | Good |
| Characteristics: Translucent with excellent flexibility | Translucent and rigid | Translucent and rigid | Clear and rigid | Clear and rigid |

Excellent resistance (no attack) to dilute and concentrated Acids, Alcohols, Bases and Esters.

Good resistance (minor attack) to Aldehydes, Ketones and Vegetable Oils.

Limited resistance (moderate attack) suitable for short term use only) to Aliphatic & Aromatic Hydrocarbons, Mineral Oils and Oxidizing Agents.

Poor resistance and not recommended for use with Halogenated Hydrocarbons.

Excellent resistance (no attack) to dilute and concentrated Acids, Alcohols and Bases.

Good resistance (minor attack) to Aldehydes, Esters, Aliphatic and Aromatic Hydrocarbons, Ketones and Mineral and Vegetable Oils.

Limited resistance (moderate attack) and suitable for short term use only) to Halogenated Hydrocarbons and Oxidizing Agents.

Excellent resistance (no attack) to dilute and concentrated Acids, Alcohols, Bases and Mineral Oils.

Good resistance (minor attack) to Aldehydes, Esters, Aliphatic Hydrocarbons, Ketones & Vegetable Oils.

Limited resistance (moderate attack) and suitable for short term use only) to Aromatic and Halogenated Hydrocarbons and Oxidizing Agents.

Excellent resistance (no attack) to dilute and concentrated Acids, Alcohols, Bases and Mineral Oils.

Good resistance (minor attack) to Aldehydes, Esters, and Vegetable Oils.

Limited resistance (moderate attack) and suitable for short term use only) to Aliphatic and Aromatic Hydrocarbons, Ketones and Oxidizing Agents.

Poor resistance not recommended for use with Halogenated Hydrocarbons.

Excellent resistance (no attack) to dilute Acids, Alcohols and Mineral Oils.

Good resistance (minor attack) to Vegetable Oils.

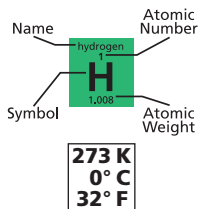
Limited resistance (moderate attack) and suitable for short term use only) to concentrated Acids.

Poor resistance not recommended for use with Aldehydes, Esters, Aliphatic, Aromatic and Halogenated Hydrocarbons, Ketones and Oxidizing Agents.

Dynalon.com
Tel 800.334.7585

Periodic Table of the Elements

| Period | Group 1 | | | | | | | | | | | | | | | | | | Group 18 |
|--------|---------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|------------------------------|
| 1 | Hydrogen H 1.008 | | | | | | | | | | | | | | | | | | Helium He 4.003 |
| 2 | Lithium Li 6.941 | Beryllium Be 9.0122 | | | | | | | | | | | | | | | | | |
| 3 | Sodium Na 22.99 | Magnesium Mg 24.305 | | | | | | | | | | | | | | | | | |
| 4 | Potassium K 39.098 | Calcium Ca 40.078 | Scandium Sc 44.956 | Titanium Ti 47.867 | Vanadium V 50.942 | Chromium Cr 51.996 | Manganese Mn 54.938 | Iron Fe 55.845 | Cobalt Co 58.933 | Nickel Ni 58.693 | Copper Cu 63.546 | Zinc Zn 65.38 | Gallium Ga 69.723 | Germanium Ge 72.64 | Arsenic As 74.922 | Selenium Se 78.96 | Bromine Br 79.904 | Krypton Kr 83.798 | |
| 5 | Rubidium Rb 85.468 | Strontium Sr 87.62 | Yttrium Y 88.906 | Zirconium Zr 91.224 | Niobium Nb 92.906 | Molybdenum Mo 95.96 | Technetium Tc 98 | Ruthenium Ru 101.07 | Rhodium Rh 102.906 | Palladium Pd 106.42 | Silver Ag 107.868 | Cadmium Cd 112.411 | Indium In 114.818 | Tin Sn 118.71 | Antimony Sb 121.76 | Tellurium Te 127.6 | Iodine I 126.904 | Xenon Xe 131.293 | |
| 6 | Cesium Cs 132.91 | Barium Ba 137.327 | Lanthanum La 138.905 | Hafnium Hf 178.49 | Tantalum Ta 180.948 | Tungsten W 183.84 | Rhenium Re 186.207 | Osmium Os 190.23 | Iridium Ir 192.217 | Platinum Pt 195.084 | Gold Au 196.967 | Mercury Hg 200.59 | Thallium Tl 204.383 | Lead Pb 207.2 | Bismuth Bi 208.98 | Polonium Po 209 | Astatine At 210 | Radon Rn 222 | |
| 7 | Francium Fr 223 | Radium Ra 226 | Actinium Ac 227 | Rutherfordium Rf 267 | Dubnium Db 268 | Seaborgium Sg 271 | Bohrium Bh 272 | Hassium Hs 277 | Mtnerium Mt 276 | Darmstadtium Ds 281 | Roentgenium Rg 280 | Copernicium Cn 285 | Nihonium Nh 286 | Flerovium Fl 289 | Moscovium Mc 290 | Livermorium Lv 293 | Tennessee Ts 294 | Oganesson Og 294 | |



| | |
|-----------|---------|
| C | Solid |
| Hg | Liquid |
| H | Gas |
| Rf | Unknown |

| Lanthanides | Cerium Ce 58 140.116 | Praseodymium Pr 59 140.908 | Neodymium Nd 60 144.242 | Promethium Pm 61 145 | Samarium Sm 62 150.36 | Europium Eu 63 151.964 | Gadolinium Gd 64 157.25 | Terbium Tb 65 158.925 | Dysprosium Dy 66 162.5 | Holmium Ho 67 164.93 | Erbium Er 68 167.259 | Thulium Tm 69 168.934 | Ytterbium Yb 70 173.054 | Lutetium Lu 71 174.967 |
|-------------|---------------------------------------|--|---|--------------------------------------|---------------------------------------|--|---|---------------------------------------|--|---------------------------------------|--------------------------------------|--|---|--|
| Actinides | Thorium Th 90 232.038 | Protactinium Pa 91 231.036 | Uranium U 92 238.029 | Neptunium Np 93 237 | Plutonium Pu 94 244 | Americium Am 95 243 | Curium Cm 96 247 | Berkelium Bk 97 247 | Californium Cf 98 251 | Einsteinium Es 99 252 | Fermium Fm 100 257 | Mendelevium Md 101 258 | Nobelium No 102 259 | Lawrencium Lr 103 262 |

| | | | | | | |
|---|---|---|--|--|--|---|
| Alkali Metals | Alkaline Earth Metals | Transition Metals | Post Transition Metals | Metalloids | Non-metals | Noble Gases |
| M E T A L S | | | | N O N - M E T A L S | | |