All plots made using the CES Edupack Software.
All plots made using the CES Edupack Software.
All plots made using the CES EduPack software

Strength (ability to resist plastic deformation) with comparison to density

Ceramics
- Concrete
- Brick
- Stone
- Borosilicate glass
- Silicon carbide
- Silicon nitride
- Aluminium nitride
- Silica glass

Plastics
- Polyethylene (LDPE)
- Polyethylene (HDPE)
- Polypropylene (PP)
- Polyurethane (TPU)
- Rubber (NBR)
- Polyurethane (PUR)
- EVA
- Neoprene

Metals
- Cast iron, grey
- Low carbon steel
- Stainless steel
- Titanium
- Gold
- Silver
- Copper alloys
- Tungsten alloys
- Aluminium alloys
- Magnesium alloys
- Titanium alloys
- Nickel alloys
- Stainless alloys
- Lead alloys
- Super alloy
- Medium carbon steel
- High carbon steel
- Low alloy steel
- Steel

Composites
- Wood, typical across grain
- Wood, typical along grain
- Medium density fibreboard
- Paper and cardboard
- Leather
- FRP (MD)
- FRP (LV)
- Rigid polymer foam
- Flexible polymer foam

All plots made using the CES EduPack software.
<table>
<thead>
<tr>
<th>Plastics</th>
<th>Metals</th>
<th>Composites</th>
<th>Ceramics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyisoprene rubber (IR)</td>
<td>Tungsten alloys</td>
<td>Concrete</td>
<td>Silica carbide</td>
</tr>
<tr>
<td>Butyl rubber (IR)</td>
<td>Cast Iron, ductile (nodular)</td>
<td>Soda-lime glass</td>
<td>Silicon carbide</td>
</tr>
<tr>
<td>Neoprene</td>
<td>Medium carbon steel</td>
<td>Boria/carbonate glass</td>
<td>Silicon</td>
</tr>
<tr>
<td>Epoxies</td>
<td>High carbon steel</td>
<td>Cork</td>
<td>Stone</td>
</tr>
<tr>
<td>Silicone</td>
<td>Magnesium alloys</td>
<td>Nickel alloys</td>
<td>Brick</td>
</tr>
<tr>
<td>NR</td>
<td>Lead alloys</td>
<td>Aluminum alloys</td>
<td>Aluminum nitride</td>
</tr>
<tr>
<td>Polyurethane</td>
<td>Zinc alloys</td>
<td>Copper alloys</td>
<td>CFP</td>
</tr>
<tr>
<td>EVA</td>
<td>Copper alloys</td>
<td>Aluminum</td>
<td>GFRP</td>
</tr>
<tr>
<td>Teflon</td>
<td>Stainless steel</td>
<td>Silver</td>
<td>Leather</td>
</tr>
<tr>
<td>Phenolics</td>
<td>Low alloy steel</td>
<td>Tin</td>
<td>Bamboo</td>
</tr>
<tr>
<td>PS</td>
<td>Medium carbon steel</td>
<td>Flexible Polymer Foam (MD)</td>
<td>Paper and cardboard</td>
</tr>
<tr>
<td>SBR</td>
<td>Titanium alloys</td>
<td>Wood, typical across grain</td>
<td>Wood, typical along grain</td>
</tr>
<tr>
<td>PMMA</td>
<td>Aluminum</td>
<td>Silver</td>
<td>CFP</td>
</tr>
<tr>
<td>PEK</td>
<td>Copper</td>
<td>Leather</td>
<td>CFP</td>
</tr>
<tr>
<td>Polyurethane (TPU)</td>
<td>Stainless</td>
<td>CFP</td>
<td>Wood, typical along grain</td>
</tr>
<tr>
<td>ABS</td>
<td>Silver</td>
<td>CFP</td>
<td>Wood, typical across grain</td>
</tr>
<tr>
<td>PTFE</td>
<td>Nylon</td>
<td>CFP</td>
<td>Paper and cardboard</td>
</tr>
<tr>
<td>PMA</td>
<td>Nylons</td>
<td>CFP</td>
<td>Wood, typical along grain</td>
</tr>
</tbody>
</table>

All plots made using the CES EduPack Software.