## Characteristics of insulating and sheath materials

<table>
<thead>
<tr>
<th>Designation</th>
<th>Electrical</th>
<th>Thermic</th>
<th>Mechanical</th>
<th>Halogen-free</th>
<th>Weather</th>
<th>Cool resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>V</strong> PVC Polyvinyl chloride compounds</td>
<td>1.55 - 1.75</td>
<td>35</td>
<td>10 - 10^4</td>
<td>34 - 6</td>
<td>26 - 35</td>
<td>17 - 25</td>
</tr>
<tr>
<td><strong>U</strong> Polyethylene compounds</td>
<td>0.92 - 0.94</td>
<td>90</td>
<td>10^3</td>
<td>2.6</td>
<td>42 - 44</td>
<td>0.4</td>
</tr>
<tr>
<td><strong>X</strong> Polyurethane compounds</td>
<td>0.81</td>
<td>75</td>
<td>10</td>
<td>2.3</td>
<td>42 - 44</td>
<td>0.1</td>
</tr>
<tr>
<td><strong>E</strong> Elastomer</td>
<td>0.89 - 1.0</td>
<td>50</td>
<td>&gt; 10^2</td>
<td>2.7 - 3.1</td>
<td>140 - 180</td>
<td>100</td>
</tr>
<tr>
<td><strong>G</strong> Natural rubber</td>
<td>1.5 - 1.7</td>
<td>70</td>
<td>10 - 10^3</td>
<td>4.5 - 10</td>
<td>140 - 180</td>
<td>100</td>
</tr>
<tr>
<td><strong>S</strong> Silicone rubber</td>
<td>1.3</td>
<td>50</td>
<td>10</td>
<td>4 - 10</td>
<td>260</td>
<td></td>
</tr>
<tr>
<td><strong>L</strong> PVC</td>
<td>1.5 - 1.55</td>
<td>30</td>
<td>10</td>
<td>3.6 - 10^3</td>
<td>17 - 19</td>
<td>0.23</td>
</tr>
<tr>
<td><strong>R</strong> Ethylene-propylene rubber compounds</td>
<td>1.3 - 1.5</td>
<td>50</td>
<td>10</td>
<td>4.4 - 10^3</td>
<td>18 - 25</td>
<td></td>
</tr>
<tr>
<td><strong>P</strong> Chlorinated polyethylene compounds</td>
<td>1.4 - 1.65</td>
<td>30</td>
<td>10</td>
<td>6 - 10^3</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td><strong>CM</strong> Chlorinated polyolefin compounds</td>
<td>1.5 - 1.7</td>
<td>25</td>
<td>10</td>
<td>2.8 - 10^3</td>
<td>140</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>PE</strong> Polyethylene</td>
<td>1.9 - 2.1</td>
<td>35</td>
<td>10^3</td>
<td>2.6</td>
<td>42 - 44</td>
<td>0.1</td>
</tr>
<tr>
<td><strong>PT</strong> Polyurethane</td>
<td>1.4 - 1.6</td>
<td>30</td>
<td>10</td>
<td>5.4 - 10^3</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td><strong>H</strong> Heat-resistant polymer compounds</td>
<td>1.4 - 1.6</td>
<td>35</td>
<td>10 - 10^3</td>
<td>5.4 - 10^3</td>
<td>150</td>
<td></td>
</tr>
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<td><strong>HE</strong> Heat-resistant polymer compounds</td>
<td>1.4 - 1.6</td>
<td>35</td>
<td>10 - 10^3</td>
<td>5.4 - 10^3</td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

* The characteristics valid for unprocessed material.

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**Thermoplastic**

**Elastomer**

**High temp. materials**

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* This polystyrene may be e.g. Fluor-Chlor-Hydrocarbon

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* dependant on the type compound