3M™ PTFE Extruded Film Tape 5490 is part of a larger family

**Thicker**
(more durable – up to 0.17mm)
5491, 5481

**More Conformable**
(Skived)
5480, 5481

**Lead PTFE Product**

3M PTFE Tape 5490

- Color: Gray
- Adhesion to steel: 29 N/ 100mm
- Tensile strength: 385 N/ 100mm
- Elongation: 150%
- Thickness: 0.09mm
- Adhesive: Silicone
- Temperature: -65F to 500F (-54C to 260C)

**Non Silicone**
(rubber adhesive)
5498

**Extreme durability**
(glass cloth scrim resists abrasion, puncture, continuous high temperature of 500F (260C))
5451, 5151, 5453, 5153

Black = Premium
Green = General Purpose
# Fine tuning: Choosing among PTFE solutions

*TDS data as of August 9, 2016*

<table>
<thead>
<tr>
<th>Product</th>
<th>Construction</th>
<th>Process</th>
<th>Color</th>
<th>Data Sheet</th>
<th>Why choose vs other products in the family?</th>
<th>Properties</th>
<th>Adhesion to steel (N / 100mm)</th>
<th>Tensile strength (N / 100mm)</th>
<th>Elongation at break (%)</th>
<th>Temperature range (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5490★</td>
<td>PTFE/Silicone</td>
<td>Extruded</td>
<td>Gray</td>
<td></td>
<td>Thin, lies flat, elongation</td>
<td>0.09</td>
<td>29</td>
<td>385</td>
<td>N/A</td>
<td>150%</td>
</tr>
<tr>
<td>5491★</td>
<td>PTFE/Silicone</td>
<td>Extruded</td>
<td>Gray</td>
<td></td>
<td>Longer wear than 5490</td>
<td>0.17</td>
<td>38</td>
<td>700</td>
<td>N/A</td>
<td>200%</td>
</tr>
<tr>
<td>5480★</td>
<td>PTFE/Silicone</td>
<td>Skived</td>
<td>Gray</td>
<td></td>
<td>Thin, &gt; tensile than 5490</td>
<td>0.09</td>
<td>22</td>
<td>473</td>
<td>N/A</td>
<td>140%</td>
</tr>
<tr>
<td>5481★</td>
<td>PTFE/Silicone</td>
<td>Skived</td>
<td>Gray</td>
<td></td>
<td>Conformability, tensile</td>
<td>0.17</td>
<td>35</td>
<td>858</td>
<td>N/A</td>
<td>335%</td>
</tr>
<tr>
<td>5498★</td>
<td>PTFE/Rubber</td>
<td>Extruded</td>
<td>Brown</td>
<td></td>
<td>Non-silicone, adhesion</td>
<td>0.10</td>
<td>53</td>
<td>332</td>
<td>N/A</td>
<td>105%</td>
</tr>
<tr>
<td>5451★</td>
<td>PTFE/GC/Silicone</td>
<td>Brown</td>
<td></td>
<td></td>
<td>Excellent wear, cut resistance</td>
<td>0.14</td>
<td>31</td>
<td>1760</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>5453★</td>
<td>PTFE/GC/Silicone</td>
<td>Brown</td>
<td></td>
<td></td>
<td>Longer wear than 5451</td>
<td>0.21</td>
<td>56</td>
<td>3065</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>5151</td>
<td>PTFE/GC/Silicone</td>
<td>Brown</td>
<td></td>
<td></td>
<td>Economical GC PTFE</td>
<td>0.13</td>
<td>36</td>
<td>1925</td>
<td>UVPC Available</td>
<td>N/A</td>
</tr>
<tr>
<td>5153</td>
<td>PTFE/GC/Silicone</td>
<td>Brown</td>
<td></td>
<td></td>
<td>Longer wear than 5151</td>
<td>0.20</td>
<td>47</td>
<td>5075</td>
<td>UVPC Available</td>
<td>N/A</td>
</tr>
</tbody>
</table>