“Compared to pure EPDM sealing solutions, the TPE-EPDM hybrid technology is in line with market trends due to higher process efficiency, a lower carbon footprint and weight reduction, helping customers to achieve their sustainability goals. KRAIBURG TPE holds several patents for compounds with EPDM adhesion in Europe and North America, which underlines the importance of this technology.”

**Our Know-how – Your Advantage**

- Constant EPDM adhesion quality
- Improved EPDM adhesion after heat aging (proven at 90 °C) without oil bleeding
- Optimized flow properties lead to broad processing window and greater part and tool design freedom
- Low internal tool pressure
- Easy demolding
- Low coefficient of friction
- Weathering resistance and color stability
- Wear and tear resistance
- Homogeneous surface quality
- Low density leads to potential weight reduction
- Coloring in OEM exterior colors possible
- Detailed processing guidelines for EPDM adhesion compounds available

**Alexander Mayer**
Senior Business Development Manager

**Typical Applications**

- Glass run channels
- Corner moldings
- Endcaps

- Outer waist belts
- Fenders and door sealings
- Windows encapsulations

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**Technical Data**

<table>
<thead>
<tr>
<th>Value</th>
<th>Unit</th>
<th>TC7WEZ</th>
<th>TC7RQP-BLCK</th>
<th>TC8RQP-BLCK</th>
<th>STC9341/288</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highlight</td>
<td>Reference Automotive Exterior</td>
<td>EPDM bonding, low CoF</td>
<td>EPDM bonding, low CoF</td>
<td>Approval from GM and Stellantis</td>
<td></td>
</tr>
<tr>
<td>Hardness</td>
<td>ShA</td>
<td>72</td>
<td>67</td>
<td>78</td>
<td>78</td>
</tr>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>0.930</td>
<td>0.930</td>
<td>0.920</td>
<td>0.900</td>
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<tr>
<td>Tensile strength (TS)</td>
<td>MPa</td>
<td>8.0</td>
<td>6.0</td>
<td>7.0</td>
<td>7.0</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>%</td>
<td>650</td>
<td>550</td>
<td>500</td>
<td>653</td>
</tr>
<tr>
<td>CS 72h/23 °C</td>
<td>%</td>
<td>32</td>
<td>30</td>
<td>35</td>
<td>44</td>
</tr>
<tr>
<td>CS 24h/70 °C</td>
<td>%</td>
<td>50</td>
<td>65</td>
<td>65</td>
<td>62</td>
</tr>
<tr>
<td>Flow spiral (760 bar)</td>
<td>cm</td>
<td>90 (200 °C)</td>
<td>96 (240 °C)</td>
<td>90 (240 °C)</td>
<td>103 (200 °C)</td>
</tr>
</tbody>
</table>

**EPDM Adhesion**

| TS parallel | MPa | - | 3.2 | 3.3 | - |
| TS cross    | MPa | - | 3.6 | 3.4 | - |
| TS parallel - 7d/90 °C | MPa | - | 3.4 | 3.6 | - |
| TS cross - 7d/90 °C | MPa | - | 4.3 | 4.1 | - |

*acc. WDK Z701 “EPDM-TPE-Hybrid Components for Vehicle Body Sealing Systems”

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**TALK TO OUR EXPERTS!**

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