Eugen Andert
Project leader

With our second generation of Universal PCR TPEs, we are continuing our sustainable product strategy: We’ve combined our experience from the previous product generation with customer requirements, resulting in our second generation of recycling-based non-polar TPEs with a very high PCR content of up to 79% in natural colors.

Typical Applications
- Grip applications
- Soft Touch
- Function and design elements
- Razors
- Toys
- Sports and leisure applications
- Caps and closures
- Fasteners

Technical Data

<table>
<thead>
<tr>
<th>RC/PCR2 Series</th>
<th>RC3OGD-NTRL</th>
<th>RC5OGD-NTRL</th>
<th>RC9OGD-NTRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recycling Content %</td>
<td>70</td>
<td>71</td>
<td>79</td>
</tr>
<tr>
<td>Color</td>
<td>Natural</td>
<td>Natural</td>
<td>Natural</td>
</tr>
<tr>
<td>Hardness ShA</td>
<td>30</td>
<td>50</td>
<td>90</td>
</tr>
<tr>
<td>Density g/cm³</td>
<td>0.860</td>
<td>0.870</td>
<td>0.880</td>
</tr>
<tr>
<td>Tensile Strength MPa</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Elongation at Break %</td>
<td>600</td>
<td>550</td>
<td>450</td>
</tr>
<tr>
<td>Tear Resistance N/mm</td>
<td>8.0</td>
<td>10.0</td>
<td>22.0</td>
</tr>
<tr>
<td>Flow Spiral cm</td>
<td>124</td>
<td>118</td>
<td>94</td>
</tr>
</tbody>
</table>

Our Know-how – Your Advantage
- More sustainable TPE material
- Recycling content up to 79% based on PCR raw materials
- Hardness range from 30-90 ShA
- Wide range of coloring possibilities
- Adhesion to unpolar Thermoplastics e.g. PP
- Very good flowability
- REACH, RoHS conformity
- Meets requirement of EN71-3
- PAH-free
- Reliable quality and availability

TALK TO OUR EXPERTS!

KRAIBURG TPE GMBH & CO. KG - EUROPE, MIDDLE EAST, AFRICA
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KRAIBURG TPE CORPORATION - AMERICAS
email: info-america@kraiburg-tpe.com
Eugen Andert
Project leader

“We are excited to launch the first TPEs with recycling content in combination with adhesion to Polyamides. These more sustainable TPEs can be used for a wide range of Consumer and Industry applications, enabling us at the same time to close recycling loops and to continue our steps towards a more sustainable future.”

Typical Applications
- Grip applications
- Soft Touch
- Function and design elements
- Overmolded housings
- Fasteners

Technical Data

<table>
<thead>
<tr>
<th>RC/AD/PA Series</th>
<th>RR4NGD-NTRL</th>
<th>RR5NGD-NTRL</th>
<th>RRBNGD-NTRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recycling Content</td>
<td>60</td>
<td>58</td>
<td>49</td>
</tr>
<tr>
<td>Color</td>
<td>Natural</td>
<td>Natural</td>
<td>Natural</td>
</tr>
<tr>
<td>Hardness ShA</td>
<td>40</td>
<td>50</td>
<td>80</td>
</tr>
<tr>
<td>Density g/cm³</td>
<td>0.995</td>
<td>0.990</td>
<td>0.980</td>
</tr>
<tr>
<td>Tensile Strength MPa</td>
<td>5.0</td>
<td>6.5</td>
<td>9.0</td>
</tr>
<tr>
<td>Elongation at Break %</td>
<td>700</td>
<td>700</td>
<td>700</td>
</tr>
<tr>
<td>Tear Resistance N/mm</td>
<td>10.0</td>
<td>12.0</td>
<td>22.0</td>
</tr>
<tr>
<td>Adhesion to PA 6 N/mm</td>
<td>4.1 (D)</td>
<td>5.2 (D)</td>
<td>8.7 (D)</td>
</tr>
<tr>
<td>Adhesion to PA 6.6 N/mm</td>
<td>4.2 (D)</td>
<td>5.2 (D)</td>
<td>7.8 (D)</td>
</tr>
</tbody>
</table>

Our Know-how – Your Advantage
- More sustainable TPE material
- Recycling contents up to 60% based on a combination of PIR and PCR materials
- Hardness range from 40–80 ShA
- Wide range of coloring possibilities
- Adhesion to Polyamides like PA6, PA 6.6
- Very good flowability
- US FDA CFR 21 (raw material conformity)
- REACH, RoHS conformity
- PAH-free
- Reliable quality and availability

TALK TO OUR EXPERTS!

KRAIBURG TPE GMBH & CO. KG - EUROPE, MIDDLE EAST, AFRICA

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KRAIBURG TPE CORPORATION - AMERICAS

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“With our new recycling-based RC/AD1 series, we are contributing to achieving our ambitious sustainability goals whilst fulfilling the high demands for a technical product at the same time. Sustainability is one of our core competencies at KRAIBURG TPE. We close recycling loops with innovative products and thus live up to our responsibility towards the environment and future generations.”