POLYNEON No.40

Article Description | Machine Embroidery Thread
Composition       | 100% polyester filament
Count            | 135 dtex x 2 / 120 den x 2
Make Up Available| 1000m spool / 5000m cone
Recommended needle size | 60/8 – 75/11

Fastness Rating – Scale 1 (worst) – 5 (best)

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fastness to washing at 95°C</td>
<td>DIN EN ISO 105-C04/M &amp; S C4A</td>
<td>4-5</td>
</tr>
<tr>
<td>Fastness to water (damp for 4hrs at 37°C)</td>
<td>DIN EN ISO 105-E01/M &amp; S C6</td>
<td>4-5</td>
</tr>
<tr>
<td>Fastness to rubbing dry (10 rubs on dry white fabric)</td>
<td>DIN EN ISO 105-X12/M &amp; S C8</td>
<td>4</td>
</tr>
<tr>
<td>Fastness to rubbing wet (10 rubs on wet white fabric)</td>
<td>DIN EN ISO 105-X12/M &amp; S C8</td>
<td>3-4</td>
</tr>
<tr>
<td>Fastness to dry cleaning</td>
<td>DIN EN ISO 105-D01</td>
<td>4-5</td>
</tr>
<tr>
<td>Fastness to bleaching with Hypochlorite</td>
<td>DIN EN ISO 105-N01</td>
<td>4-5</td>
</tr>
<tr>
<td>Determination of the colourfastness of articles for common use – Part 1: Test with artificial saliva</td>
<td>DIN 53160-1</td>
<td>4-5</td>
</tr>
<tr>
<td>Determination of the colourfastness of articles for common use – Part 2: Test with artificial sweat</td>
<td>DIN 53160-2</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Fastness Rating – Scale 1 (worst) – 8 (best)

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fastness to light (100hrs xenon light)</td>
<td>DIN EN ISO 105-B02</td>
<td>6-8</td>
</tr>
</tbody>
</table>

“This rating only applies to colors we dye especially to meet the standards of the automotive industry. If you work in this sector, please ask for the list of colors. Other colors currently have a lower fastness to light.”

Mechanical – Technological Values

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength cN (force until thread breaks, in Centinewton)</td>
<td>DIN EN ISO 2062</td>
<td>ca.1200cN</td>
</tr>
<tr>
<td>Elongation (% of stretch extension with weight tension until breaks)</td>
<td></td>
<td>ca.25%</td>
</tr>
<tr>
<td>Shrinkage (shrinkage at boiling water)</td>
<td>DIN 53866 T2</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>Melting point</td>
<td></td>
<td>&gt;240°C</td>
</tr>
</tbody>
</table>

Recommendations for care

- max. 20g/l active chlorine- max. 30°C - max. 30 min

Polyneon No.40 is suitable for industrial laundry.

Color Card No. 83

Oeko-Tex

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