TECHNICAL DATA SHEET

PMAFIX PLus - BUAV-UL - Fitting
45° elbow, NPT thread

UL-listed polyamide fitting for flexible non-metallic conduit

Applications:
- For cable protection systems in a wide range of applications
- Excellent fire characteristics allow application in public buildings like hospitals, hotels, airports, train and subway stations, shopping centres etc.
- For use according to National Electric Code (NEC) NFPA 70, Article 356

Features & Benefits:
- Extremely high impact resistance
- Vibration-resistant connection to PMA conduits
- Easy installation
- High conduit pull-out strength
- Very good chemical properties
- Fits conduit profile coarse (G)

Ingress protection:
- IP66, IP68 & IP69 (EN/IEC 60529)
- IP69, 100 bar with water impact protection (WPS-ring)

Materials:
- High-grade, specially formulated polyamide 6

Compatible with:
- PMAFLEX PLus conduits

Conforms to:
- UL 514B / CSA C22.2 No. 18.3 (UL File E174370)
- UL 94 (V0)

Colour:
- Black
- Grey

Chemical properties:
- Please refer to www.pma.ch
  (Technical Information / Chemical Resistance)

Environmental properties:
- Free from halogens and cadmium
- RoHS and REACH compliant
## Mechanical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test parameters:</th>
<th>Test method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile modulus</td>
<td>1'200 ... 3'700 N/mm²</td>
<td></td>
<td>ISO 527</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>45 ... 65 N/mm²</td>
<td></td>
<td>ISO 527</td>
</tr>
<tr>
<td>Notched bar impact test</td>
<td>4 ... 20 kJ/m²</td>
<td></td>
<td>ISO 180/1C</td>
</tr>
</tbody>
</table>

## Thermal Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test parameters:</th>
<th>Test method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous application temperature</td>
<td>– 50 ... + 105 °C</td>
<td></td>
<td>PMA DO 9.21-4510</td>
</tr>
<tr>
<td>Upper application temperature</td>
<td>+ 120 °C</td>
<td></td>
<td>PMA DO 9.21-4360</td>
</tr>
<tr>
<td>Short-term</td>
<td>+ 160 °C</td>
<td></td>
<td>PMA DO 9.21-4360</td>
</tr>
</tbody>
</table>

(168 h)

## Fire Safety Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test parameters:</th>
<th>Test method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame class</td>
<td>V0 (V2)</td>
<td></td>
<td>UL 94</td>
</tr>
<tr>
<td>Glowing wire test</td>
<td>960 °C</td>
<td></td>
<td>EN 60695-2-10</td>
</tr>
<tr>
<td>Oxygen index (LOI)</td>
<td>&gt; 30 %</td>
<td></td>
<td>ASTM D 2863</td>
</tr>
</tbody>
</table>

## Content of Delivery:

- Fitting with clip (AUN2),
- thread gasket (SVN4),
- conduit seal (NVN3),
- compatible lock nut (BMN-M)

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