

	<b>CO-ORDINATION OF NOTIFIED BODIES</b> <b>PPE Regulation 2016/425</b>  <b>RECOMMENDATION FOR USE</b>	PPE-R/11.051 Version 02
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Question related to <input checked="" type="checkbox"/> PPE Regulation <input type="checkbox"/> PPE Guidelines <input checked="" type="checkbox"/> EN/prEN: all EN for PPE against fall from a height with load bearing textile element <input type="checkbox"/> Other:		
Article: <span style="margin-left: 100px;">Annex:</span> <span style="margin-left: 100px;">Clause:</span>		
Key words: Load bearing textile materials		
Question: Which kinds of load bearing textile materials are acceptable for use in personal protective equipment against falls from a height and which are not?		
Solution:  <i>Note: solution takes into account document N1042 from TC136/WG5</i> The following requirements apply to the load bearing textile materials used in personal protective equipment against falls from a height. Note 1: Mixtures of acceptable materials are also acceptable. Note 2: Materials that are not themselves load bearing (e.g. elastic yarn, polyethylene made of monofilament fibres) but mixed with load bearing material(s) are acceptable. Note 3: Other load bearing textile materials are not acceptable except if documented justification can be provided for specific application.  <b>A – ROPES</b> Examples: as PPE (dynamic rope, low stretch kernmantel rope, accessory cord) or component of PPE (lanyard, sling, anchor line, retractable lanyard,...)  <b>Common materials</b> A1 - polyamide: <b>acceptable.</b> A2 - polyester: <b>acceptable.</b> A3 - polypropylene: <b>acceptable</b> if providing a suitable UV resistance justification (e.g. compliance with EN1263:2014) given by the manufacturer.  <b>High strength materials</b> A4 - Aramid (e.g. Technora®, Kevlar®, Twaron®): <b>acceptable</b> , but if used in the outer sheath, the instructions for use requires an additional warning about low UV resistance. A5 - Liquid Cristal Polymer (LCP) other than aramids (e.g Vectran®): <b>acceptable</b> , but if used in the outer sheath, the manufacturer's instructions and information requires an additional warning about low UV resistance. A6 - Ultrahigh molecular weight polyethylene (UHMWPE) e.g. Dyneema®, Spectra®: <b>acceptable</b> but if used in the outer sheath, the manufacturer's instructions and information requires a warning about the low melting point (140°C) and low friction coefficient (slipperiness) of the material.		

## **B - WEBBINGS**

Examples: as PPE (tape) or component of PPE (harness, work positioning belt, lanyard, sling, retractable lanyard,...)

### **Common materials**

B1 - polyamide:

**acceptable.** B2 -

polyester: **acceptable.**

B3 - polypropylene: **acceptable** if providing a suitable UV resistance justification (e.g. compliance with EN1263:2014) given by the manufacturer

### **High strength materials**

B4 - Aramid (e.g. Technora®, Kevlar®, Twaron®): **acceptable**, but the manufacturer's instructions and information requires an additional warning about low UV resistance.

B5 - Liquid Cristal Polymer (LCP) other than aramids (e.g Vectran®): **acceptable**, but the manufacturer's instructions and information requires an additional warning about low UV resistance.

B6 - Ultrahigh molecular weight polyethylene (UHMWPE) e.g. Dyneema®, Spectra®: **acceptable** but the manufacturer's instructions and information requires a warning about the low melting point (140°C) and low friction coefficient (slipperiness) of the material.

## **C - STITCHING MATERIAL**

### **Common materials**

C1 - polyamide:

**acceptable.** C2 -

polyester: **acceptable.**

C3 - polypropylene: **acceptable** if providing a suitable UV resistance justification (e.g. compliance with EN1263:2014) given by the manufacturer.

### **High strength materials**

C4 - Aramid (e.g. Technora®, Kevlar®, Twaron®): **acceptable**, but if used on the product surface, the instructions for use requires an additional warning about low UV resistance

C5 - Liquid Cristal Polymer (LCP) other than aramids (e.g Vectran®): **acceptable**, but if used on the product surface, the manufacturer's instructions and information requires an additional warning about low UV resistance

C6 - Ultrahigh molecular weight polyethylene (UHMWPE) e.g. Dyneema®, Spectra®: **acceptable** but if used on the product surface, the manufacturer's instructions and information requires a warning about the low melting point (140°C).