

	<b>CO-ORDINATION OF NOTIFIED BODIES</b> <b>PPE Regulation 2016/425</b>  <b>RECOMMENDATION FOR USE</b>	PPE-R/03.032 Version 01
Number of pages: 1	Approval stage : <span style="float: right;">Approved on :</span>	
Origin : Vertical Group 3	<input checked="" type="checkbox"/> Vertical Group <span style="float: right;">26/11/2021</span> <input checked="" type="checkbox"/> Horizontal Committee <span style="float: right;">30/04/2022</span> <input checked="" type="checkbox"/> EU PPE Expert Group <span style="float: right;">31/08/2023</span>	
Question related to <input type="checkbox"/> PPE Regulation <input type="checkbox"/> PPE Guidelines <input checked="" type="checkbox"/> EN/prEN: ISO 16321 : 2021 series EN ISO 12312-2 : 2013 <input type="checkbox"/> Other:		
Article: _____ Annex: _____ Clause: _____		
Key words: Blue Light Absorption / Transmittance, protection against blue light emitted by natural or artificial sources		
<p>Question:</p> <p>ISO 16321-1:2021 does only establish a requirement for solar blue-light absorption / transmittance (in 6.3.3.5.2), but does not establish a requirement for blue-light absorption / transmittance for spectacles and glasses intended to protect against radiation emitted from artificial sources. A requirement for the blue-light absorption / transmittance of welding filters is given in ISO 16321-2:2021, 4.3.1.2. Another requirement for the blue light absorption / transmittance is given in EN ISO 12312-1, 5.3.5.1 for sunglasses for general use. No required limits are given in any of these standards.</p> <p>What shall be the requirement for the blue-light absorption / transmittance for spectacles, lenses or glasses intended to provide protection against radiation emitted from artificial sources in the blue spectral range?</p>		
<p>Solution:</p> <p>Which value, either / both the solar blue-light absorption / transmittance or / and the blue-light absorption / transmittance shall be specified, depends on the intended application.</p> <p>If the manufacturer claims that a filter (lenses, ocular etc) provides a protection against blue light, either / both the solar blue-light absorption / transmittance <math>\tau_{sb}</math> (for protection against sunlight) or / and the blue-light absorption / transmittance <math>\tau_b</math> (for protection against artificial sources) shall be specified. Where it is claimed that a filter has less than <math>x</math> % (solar) blue-light transmittance, the (solar) blue-light transmittance, <math>\tau_{sb}</math> or <math>\tau_b</math>, of the filter shall not exceed <math>(x + 0,5)</math> %. Where it is claimed that a filter has more than <math>x</math> % (solar) blue-light absorption, the (solar) blue-light transmittance, <math>\tau_{sb}</math> or <math>\tau_b</math>, of the filter shall not exceed <math>(100.5-x)</math> %. Either / both the solar blue-light transmittance or / and the blue-light transmittance shall be measured according to ISO 18526-2 9.1 or / and 9.2.</p>		