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	CO-ORDINATION OF NOTIFIED BODIES PPE Regulation 2016/425							PPE-R/08.058 Version 01
· · [★] ★ '	* * * RECOMMENDATION FOR USE							
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Origin : VG8						×Η	ertical Group orizontal Committee J PPE Expert Group	10/10/2023 07/12/2023 26/05/2024
Question relate	d to	PPE Regulation	PE Guideli	nes 🖂] EN/prE	N: EN	ISO 12402-7:2020	Other:
Article:		Annex:		Cl	ause: 4.1	11.12		
Key words: EN ISO 12402-	7; Windo	w Material; Table 21						
Question:								
The requirement	nt for Win	dow Material elongation	n was upda	ated in the late	est standa	ard edit	ion of EN ISO 12402-7	:2020.
	as that th							I Weathering exposure as received elongation at
Elongation	See material thickness		ASTM D 412-98, method A, dumbbell die A		10	Č.	Following exposure :	2. the material shall
EDWC65332996888ED394654				Α,			more than 30 % of the elongation at break I machine and cross-r	an 70 % or decrease ne as-received oad in both the machine directions.
Aller (2013) (30 - Relinit Dynamics)				Α,	(2016)		more than 30 % of the elongation at break I machine and cross-r Following exposures	an 70 % or decrease ne as-received oad in both the machine directions. 5 3 through 4, the crease more than 60 % an 50 % of the on at break load in

This is a dramatic reduction in the elongation requirement for this type of window material.

Data from testing of previous window materials shows that there are no components which can meet the new requirements for elongation given in the 2020 edition of the standard.

VG8 are of the opinion that the latest 10% requirement has been taken from the existing UL1191 Edition 5 standard, but the requirement has been input incorrectly and instead of having a minimum elongation of 10% after standard conditioning, it is incorrectly stated as a maximum elongation of 10%.

Table 31.2 Window material										
Test	Exposure	Test method	Number of samples	Compliance criteria						
Tensile breaking strength and elongation	1. Standard Conditioning. 2. Xe ₅₀₀	ASTM D412, Method A, Die A.	20 (5 samples in each direction for each exposure)	Following exposure 1, the minimum average strength shall be 62 N (14 pounds force) and the minimum elongation shall be 10% for each sample. Following exposure 2 the minimum strength shall be 53 N (12 pounds force).						
How is Elongation of Window Material to be assessed under EN ISO 12402-7:2020 Table 21?										
Solution:										

Until the EN ISO 12402-7:2020 edition of the standard can be amended to requirements which can be met by the currently approved material the following requirements shall be adopted for window material:

The minimum tensile strength requirements for window material shall be applied as per EN ISO 12402-7:2020, Table 21:

Following exposure 1, the tensile strength shall be no less than 60 N.

Following exposure 2, the tensile strength shall be no less than 50 N.

The elongation requirements of EN ISO 12402-7:2007+A1:2011, Table 21 shall be applied:

Following exposure 2, the material shall not increase more than 70 % or decrease more than 30 % of the as-received elongation at break load in both the machine and cross-machine directions.