

No.	Property	Test Method	Test Result						Conclusion	
1	Abrasion Resistance	ASTM D7031-11(2019) Section 5.17 & ASTM D4060-19	Weight loss: 29.1mg/1000r						Pass	
2	Antimicrobial Activity Test	ASTM G 21-15 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	Test organism(s)		Concentration of spores (spores/mL)		Rating observed growth onspecimens (after 28 days)		Pass	
			*Test organism		1.0x 10^6		0 Grade			
3	Boiling Test	EN 15534-1:2014 + A1:2017 Section 8.3.3	Mass change rate: 0.35%						Pass	
4	Coefficient of Linear Thermal Expansion	With reference to EN 15534- 1:2014+A1:2017 Section 9.2 & ISO 11359-1:2014 & ISO 11359-2:1999 Method A and client's requiremen	$48 \times 10^{-6} K^{-1}$						Pass	
5	Creep Behaviour - Unknown Span in Use	With reference to EN 15534- 1:2014+A1:2017 Section 7.4.2 and client' s requirement	Creep factor ( $C_f$ ): 0.63 Creep recovery ( $E_{rc}$ ): 54%						Pass	
6	Modulus of Elasticity in Bending and Bending Strength	EN 15534- 1:2014+A1:2017 Annex A	Bending strength			18MPa			Pass	
			Modulus of elasticity			2960MPa				
7	Resistance to Indentation	EN 15534-1:2014+A1:2017 Section 7.5	Brinell hardness			15MPa			Pass	
			Rate of elastic recovery			27%				
8	Shore Hardness	ASTM D2240-15 <sup>e1</sup>	D/41/1						Pass	
			Exposure conditions		Edge exposure			Surface exposure		
			Specimen No.		1	2	3	1	2	3

9	Single Flame Source Test	EN 15534-1:2014 Section 9.6.1 & EN ISO 11925-2:2020	Whether ignition occurs	Yes	Yes	Yes	Yes	Yes	Yes	Pass
			Whether the flame tip reaches 150 mm above the flame application point	No	No	No	No	No	No	
			The time when flame tip reaches 150 mm, s	/	/	/	/	/	/	
			Whether ignition of the filter paper occurs	No	No	No	No	No	No	
10	Striker Impacted by a Falling Weight	With reference to ASTM D4226-19e1 Procedure A and client's requirement	Mean failure energy: 19.8J						Pass	
11	Swelling and Water Absorption	EN 15534-1:2014 Section 8.3.1 & EN 317:1993	Swelling in thickness			0.04%			Pass	
			Water absorption			0.11%				