FRS conveyor belts

Requirements to EN 12882

- Electrical conductivity
- Drum friction test
- Resistance to ignition
- Determination of fire propagation

Current test standards for fire and safety requirements on fabric and steel cord conveyor belts

Category	Application	Assessment of flame resistance	Surface resistance to EN	Drum friction EN 1554					
			ISO 284	Processes	Flame	Glowing	Load	Time	Maximum drum tem- perature
1	General use, risk only through electrostatic discharge.		≤ 300 MΩ	Not required					
2A	As for category 1, additional hazard from small open flames on the cover stock (additional causes of fire).	ð	≤ 300 MΩ	Not required					
2B	As for category 2A, the additional risk is smaller, open flame on the carcass.	8 €	≤ 300 MΩ	Not required					
3A	As for category 2A, additional hazard of local heating due to friction.	88	≤ 300 MΩ	A1	No	Permitted	Constant 343 N	1 h	No
3B	As for category 3A, there is an additional risk due to small, open flame on the carcass.	884	≤ 300 MΩ	A1	No	Permitted	Constant 343 N	1 h	No
4A	As for category 1, additional risk of fire spreading caused by additional fire sources. Secondary safety device?	888	≤ 300 MΩ	Not required					
4B	As for category 4A, additional hazard of local heating due to friction. Secondary safety device?	8884	≤ 300 MΩ	A1	No	Permitted	Constant 343 N	1 h	No
5A	As for category 4B, there is however an increased risk of local heating due to friction. Secondary safety device?	8888	≤ 300 MΩ	A2	No	Permitted	Max. 1,715 N	2.5 h	No
5B	As for category 5A, with an additional risk from glowing. Secondary safety device?	88888	≤ 300 MΩ	A2	No	No	Constant 343 N	2.5 h	No
5C	As for category 5B with an additional risk when operating in a potentially combustible atmosphere. Secondary safety device?	88888	≤ 300 MΩ	A2	No	No	Constant 343 N	2.5 h	400° C