

Flame Resistant Conveyor Belt



Features

Suitable for above ground and under ground environment (flammable or explosive)

Carcass: EP, Steel Cord, Solid Woven

Standard: fulfill the highest requirements acc. to ISO 340, EN14973, EN 12882, MSHA, AS1333, etc.

Applications: Underground Coal Mines, Mines & Tunnels, Cement Plants, Wood & Paper Industries, Recycling Plants, Chemical & Fertilizer Plants, Grains & Sugar Plants...

** In some environments where coal dust, gas, fertilizer or other combustible materials are involved, it is essential that the on-going conveyor belts cannot create static electricity which can ignite gases and dust in the atmosphere.*

Standard

STANDARD		Tensile Strength (MPa)	Elongation @break (%)	Abrasion Loss (mm ³)	SAFTY REQUIREMENT
DIN 22131	K	20	400	200	Cover intact, comply with ISO 340 & EN 12882
DIN 15236-1	K	15	350	200	Cover intact, comply with ISO 340 & EN 12882
DIN 22102	K	H: 20	H: 400	H: 200	Cover intact, comply with ISO 340 & EN 12882
	S	L: 15	L: 350	L: 250	Cover intact & removed, comply with ISO 340 & EN 12882
DIN 15236-3	V	17	350	175	Underground installations, comply with EN 14793

**SPECIAL GRADES AVAILABLE: K+HR130°C, K+MOR, etc.*

EN 14973	APPLICATION	SURFACE RESISTANCE	DRUM FRICTION (EN1554)			IGNITION (ISO340)		FIRE PROPAGATION METHOD (EN12881)
			FLAME	GLOW	MAX. DRUM TEMP.	Aggregate of six test pieces	Max. for any one test piece	
A	General use, only hazard being limited access and means of escape	≤300MΩ	X	✓	No limited	45s	15s	EN 12881-1, Method A. if incomplete ignition achieved, use Method B or C
B1	As Class A plus potentially flammable atmosphere. No secondary devices	≤300MΩ	X	X	450°C	45s	15s	
B2	As Class A plus potentially flammable atmosphere. With secondary devices	≤300MΩ	X	✓	No limited	45s	15s	
C1	As Class B1 plus combustible dust or material conveyed. No secondary devices	≤300MΩ	X	X	325°C	Covers intact 3s / Covers removed 5s	Covers intact 10s / Covers removed 15s	EN 12881-1, Method B & C
C2	As Class B1 plus combustible dust or material conveyed and additional fuel sources. With secondary devices	≤300MΩ	X	✓	No limited	45s	15s	EN 12881-2

Note: (X)-No (✓)-Permitted

EN 12882	APPLICATION	SURFACE RESISTANCE	DRUM FRICTION (EN1554)			IGNITION (ISO340)		FIRE PROPAGATION METHOD (EN12881)
			FLAME	GLOW	MAX. DRUM TEMP.	Aggregate of six test pieces	Max. for any one test piece	
1	General use, risk only through electrostatic discharge	≤300MΩ	-	-	-	-	-	-
2A	As Class 1, additional hazard from small open flames on the cover stock (additional causes of fire)	≤300MΩ	-	-	-	45s	15s	-
2B	As Class 2A, the additional risk is smaller, open flame on the carcass	≤300MΩ	-	-	-	Cover intact / removed 45s	Cover intact / removed 15s	-
3A	As class 2A, additional hazard of local heating due to friction	≤300MΩ	X	-	-	45s	15s	-
3B	As Class 3A, there is an additional risk due to small, open flame on the carcass	≤300MΩ	X	-	-	Cover intact / removed 45s	Cover intact / removed 15s	-
4A	As Class 1, additional risk of fire spreading caused by additional fire sources. Secondary safety device	≤300MΩ	-	-	-			
4B	As Class 4A, additional hazard of local heating due to friction. Secondary safety device	≤300MΩ	X	-	-			
5A	As Class 4B, there is however an increased risk of local heating due to friction. Secondary safety device	≤300MΩ	X	-	-			
5B	As Class 5A, with an additional risk from glowing. Secondary safety device	≤300MΩ	X	X	-			
5C	As Class 5B, with an additional risk when operating in a potentially combustible atmosphere. Secondary safety device	≤300MΩ	X	X	400°C			EN12881-1 Method A, C or D