

General Information

2181 2 Ply White Silicone Smooth C X FS

MWR Part#	2181
Description	2 Ply White Silicone Smooth C X FS
Product Category	Food Belts
Additional Specifications	H700014599 FAB-5ER 10
Special features	Constant coefficient of friction
Applications	Food processing/conveying belt, Incline belt, Weighing belt
Main industry segments	Biscuit & Crackers, Candy, Chocolate, Frozen food, Hygiene products, Poultry, Primary food packaging, Ready meals, Red meat



Product Construction Design

Conveying side material	Silicone (SI)
Conveying side surface	Smooth
Conveying side property	Super-adhesive
Conveying side color	White
Traction layer (material)	Polyester (PET)
Number of Fabrics	2
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	White

Product Characteristics

Antistatically equipped	No
Adhesive free joining method	Yes
Flammability	No specific flammability prevention property
Food suitability, FDA conformance	Yes
Food suitability, USDA recommendations	No use intended

Technical Data

Thickness of belt	1.00 mm (0.04 inch)
Mass of belt (belt weight)	1.1 kg/m ² (0.225 lb/sqft)
Tensile force for 1% elongation (k1% static)	6.5 N/mm (37 lbf/in)
Tensile force for 1% elongation (k1% relaxed)	4.4 N/mm (25 lbf/in)
Min. operating temperature	-30 °C (-22 °F)
Max. operating temperature	80 °C (176 °F)
Coefficient of friction (pulley side/steel driving pulley)	0.10
Coefficient of friction (pulley side/driving pulley with friction)	0.35
Coefficient of friction (pulley side /pickled steel slider bed)	0.15
Coefficient of friction (pulley side/phenolic resin slider bed)	0.15
Coefficient of friction (pulley side/stainless steel slider bed)	0.15
Thermal Resistance	0.011 m ² K/W (0.002 Fft ² h/Btu)
Thermal Conductivity	0.093 W/mK (0.016 W/ft*F)
Seamless manufacturing width	2000 mm (78.74 inch)
Admissible tensile force per unit of width	11 N/mm (63 lbf/in)
Admissible tensile force per unit of width at max. temp	5.5 N/mm (31 lbf/in)

Joining Related Properties

Joining method	Flexproof 10 x 80
Knife-edge (nosebar) radius (minimum)	4 mm (0.157 inch)
Pulley diameter (minimum)	15 mm (0.59 inch)
Pulley diameter minimum with counter flection	20 mm (0.79 inch)

Application Suitability

Slider bed suitable	Yes
Carrying rollers suitable	Yes
Troughed installation suitable	No
Powerturns / curved installations	No
Low noise applications	No
Metal detector suitable	Yes



Application specialists are ready to help — call 763-559-2551. On-site installation team available.

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