

PRODUCT DATA SHEET

COLETANCHE NTP 4

DESCRIPTION

COLETANCHE NTP 4 is an oxidised bituminous geomembrane which melting point (Ring and Ball) is 90°C (EN 1427)

USE

Extreme level of mechanical constraints, aggressive materials, reinforced precautions :
- Railways, directly used under the ballast,
- Dams,
- Confining of radioactive wastes.

The choice of the product must be validated.

APPLICATION METHOD

Torched

STORAGE

The rolls must not be stored directly on the ground. They must be laid on specific supports (concrete blocks, trestles, wooden beams) 35 cm high min, placed under the edges of the mandrel.

COMPOSITION

(indicative)

Reinforcement (gm/m ²) :	Glass mat	50
Reinforcement (gm/m ²) :	Non-woven geotextile	400
Binder (gm/m ²) :	Oxidised bitumen	7310
Surface finish (gm/m ²) :	Sand	217
Under surface finish (gm/m ²) :	Polyester antiroot film	15

CHARACTERISTICS

	STANDARD	UNITS	VALUES	Tolerance	
				Min	Max
Dimensions	EN 1848-1	Length	54.00	≥	
		Width	5.10	≥	
Thickness (on finished product)	EN 1849-1	mm	5.60	5.30	6.20
Surface mass	EN 1849-1	kg/m ²	6.25	5.70	6.80
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	NPD	-	-
		Cross direction	NPD	-	-
Tensile properties : maximum tensile strength	EN 12311-1	Longitudinal	1400	1200	
		Cross direction	1300	1100	
Tensile properties : elongation	EN 12311-1	Longitudinal	60	50	
		Cross direction	60	50	
Low Temp behaviour (flexure)	EN 1109	Surface	0	≤	
		Under surface	0	≤	
Static Puncture	EN ISO 12236	Resistance	2.2	≥	
		Move	38	≥	
Water permeability (liquid tightness)	EN 14150	l/m ²	<0.1		
Gas permeability (gas tightness)	ASTM D 1434	cm ³ /(m ² .24h/atm)	<121		
Friction Direct shear	EN ISO 12957-1		NPD		
Friction Inclined Plane	EN ISO 12957-2		NPD		
Burst Strength	prEN 14151		NPD		
Reaction to fire	EN ISO 11925-2	-	NPD		
Durability					
Oxidation	EN 14575	Maximum tensile strength	100	80	120
		Elongation	100	80	120
Micro organisms	EN 12225	Maximum tensile strength	NPD	-	-
		Elongation	NPD	-	-
Chemical resistance	EN 14414	Maximum tensile strength	NPD	-	-
		Elongation	NPD	-	-
Leaching (water soluble)	EN 14415	Maximum tensile strength	NPD	-	-
		Elongation	NPD	-	-
Weathering	EN 12224	Maximum tensile strength	in progress	-	-
		Elongation	in progress	-	-
Root penetration	EN 14416	-	NPD		
Dangerous substances consult : http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm	-	-	None		

NA=not applicable due to use of product.
NPD : No performance determined