

the PREMIUM class	Technical sheet	TechnoNICOLE
Russia	<b>Technoelast</b> Roll-fed, roofing, damp-proof, waterproof welded-on bitumen-polymer material	TS 5774-003-00287852-99

**Application areas:** Designed for construction of roof cladding of buildings and constructions and for waterproofing of engineering structures.

**Composition:** Technoelast is produced by two-sided placing of bituminous polymeric bonders, consisting of bitumen, butadiene-styrene thermoplastic elastomer and filler, on the fibre-glass or polyester base. As the protective layer, hard-grained or fine-grained dressing compounds, polymer films are used.

**Grades:** Depending on the types of dressing compound and the application areas, Technoelast is produced of two grades:

Technoelast K with hard-grained dressing compound on the face and a polymeric film or fine-grained dressing compound on the welded-on part of the material; it is to be used for installation of the top layer of roof cladding;

Technoelast P with fine-grained dressing compound or a polymeric film or a composition thereof on the both sides of the material; it is to be used for installation of the bottom layer of roof cladding and for waterproofing of engineering structures (basements, tunnels, etc).

Technoelast is a bioresistant material.

### Basic physical and mechanical properties

Property name	Material	
	Technoelast P	Technoelast K
Mass of 1 sq. m, kg, not less than	4,6	5,0
Thickness, mm	4,0	4,2
Longitudinal / transverse breaking load, H, not less than		
polyester	600/400	600/400
glass-cloth	800/900	800/900
glass-fibre mat	294	294
Mass of the bonding material on the welded-on side, kg per sq. m, not less than	2,0	2,0
Water absorption during 24 h, mass %, not to exceed	1	1
Roofing sand loss, g per sample, not to exceed	-	1
Brittle point of the bonding material, °C, not to exceed	minus 35	minus 35
Bend point on a R=25 mm beam, °C, not to exceed	minus 25	minus 25
Bend point on a R=10 mm beam, °C, not to exceed	minus 25	minus 25
Water resistance at water pressure of not less than 0.001 MPa during 72 h	-	absolute
Water resistance at water pressure of not less than 0.2 MPa during 2 h	absolute	-
Heat endurance, °C, not less than	100	100
Protective covering type		
on the top	film	slate
on the bottom	film	film
Length / width, m	10x1	10x1

\* - Referential value

**Performance of works:** according to the "Manual for Designing and Installation of Roofs of Bituminous and Polymeric Materials as Manufactured by the TechnoNICOLE Roofing Company", may be used in all climate zones as determined in Construction Codes and Regulations (SNiP) 23-01.

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