

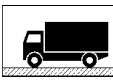

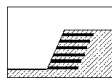
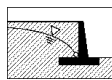
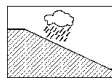


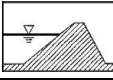
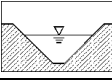

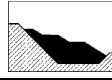
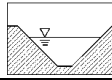
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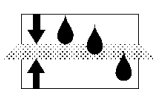
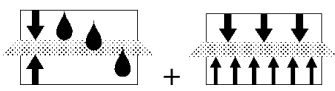
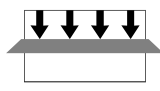
# Typar SF111

DuPont de Nemours (Luxembourg) S.à.r.l.  
 Typar® Geosynthetics  
 L-2984 Luxembourg  
 09

0799-CPD-12

Applications				
				
Road construction and other trafficked areas EN 13249 : 2000	Railways EN 13250 : 2000	Earthworks, foundations and retaining structures EN 13251 : 2000	Drainage systems EN 13252 : 2000	Erosion control EN 13253 : 2000

				
Reservoirs and dams EN 13254 : 2000	Canals EN 13255 : 2000	Tunnels and underground structures EN 13256 : 2000	Solid waste disposals EN 13257 : 2000	Liquid waste disposals EN 13265 : 2000

Intended uses	Filtration	Filtration + Separation	Protection
			

Properties	Test Method	Unit	Mean Value	Tolerances
Tensile Strength	EN ISO 10319	kN/m	MD 30.0	- 3.9
		kN/m	CMD 30.0	- 3.9
Elongation at maximum load	EN ISO 10319	%	MD 55.0	± 12.6
		%	CMD 55.0	± 12.6
Protection efficiency Applied Stress 300 kPa	prEN 13719: 1999 prEN 13719: 1999	kN/m <sup>2</sup> %	25641 1.05	- 2564
Dynamic Perforation Resistance (Cone Drop)	EN ISO 13433	mm	14	+ 2.8
Resistance to Static Puncture	EN ISO 12236	kN	4.250	- 0.425
Opening Size	EN ISO 12956	µm	65	± 19.5
Water Permeability	EN ISO 11058	m/s	5 • 10 <sup>-3</sup>	- 1.5 • 10 <sup>-3</sup>
Durability	To be covered within 2 weeks after installation Predicted to be durable for a minimum of 100 years in all natural soils.			
Oxydation Resistance	prEN ISO 13438	Retained strength	MD 100 %	CMD 100%
Chemical Resistance	EN 14030	Retained strength	MD 100 %	CMD 100%
Microbiological Resistance	EN 12225	Retained strength	MD 100 %	CMD 100%