

Cable Products

Semi-conductive nonwoven seawaterblocking tape

DATA SHEET

3C1174

Properties (23°C, 50% RH)	Nominal value	Unit	Test methods = LANTOR® method
Mass per unit area	235	g/m ²	ISO 9073-1 = KE030
Thickness	0.50	mm	ISO 9073-2 = KE050
Tensile strength	90	N/cm	ISO 9073-3 = KE060
Elongation	12	%	ISO 9073-3 = KE060
Surface resistance	-	Ω/[]	IEC 167 = KE200
Volume resistivity	0.5	MΩ.cm	DIN 54345, Part 1 = KE276
Moisture content (ex works)	6	%	110°C (halogen drying) = KE186
Swelling speed (first min.)	13	mm/min.	Eur. HD 605 S1/A1 = KE100
Swelling height (final in 4 min.)	22	mm	Eur. HD 605 S1/A1 = KE100
Swelling speed (first min.) in artificial sea-water (Aqua Marin®)	1.6	mm/min.	Eur. HD 605 S1/A1 = KE100
Swelling height in artificial sea-water (Aqua Marin®)	2.4	mm	Eur. HD 605 S1/A1 = KE100
Max. service temperature	110	°C	IEC 216 = Info Sheet 45, Para. 11
Max. processing temperature	225	°C	Info Sheet 45, Para. 12
Composition	Polyester Polyacrylate Waterswellable powder / Carbon impregnation		

Used in underwater and submarine cables:

* power cables, in the screen area:

- . under the metal screen, if the metal screen consists of larger diameter copper wires
- . under the corrugated radial water barrier
- . in EHV cables

This information is presented in good faith but is not warranted as to the accuracy of the results.

Also, freedom from patent infringement is not inferred.

This information is offered solely for your investigation, verification and consideration.