

Cable Products

Nonwoven waterblocking tape (Direct Swelling Tape)

DATA SHEET

3E5520

Properties (23°C, 50% RH)	Nominal value	Unit	Test methods = LANTOR [®] method
Mass per unit area	75	g/m ²	ISO 9073-1 = KE030
Thickness	0.30	mm	ISO 9073-2 = KE050
Tensile strength	25	N/cm	ISO 9073-3 = KE060
Elongation	11	%	ISO 9073-3 = KE060
Surface resistance	-	$\Omega/[]$	IEC 167 = KE200
Volume resistivity	-	M Ω .cm	DIN 54345, Part 1 = KE276
Moisture content (ex works)	4	%	110°C (halogen drying) = KE186
Swelling speed (first min.)	6	mm/min.	Eur. HD 605 S1/A1 = KE100
Swelling height	12	mm	Eur. HD 605 S1/A1 = KE100
Max. service temperature	90	°C	IEC 216 = Info Sheet 45, Para. 11
Max. processing temperature	225	°C	Info Sheet 45, Para. 12
Composition	Polyester Polyacrylate Waterswellable powder		

Used in communications cables, as alternative to jelly (filling and/or flooding):

- * copper cables:
 - . in dry core designs
 - . over the dry or jelly-filled core
 - . under and over the armouring (wire, tape)
- * fibre optic cables:
 - . in dry core designs
 - . over the slotted core
 - . over the central tube
 - . under and over layer(s) of loose tubes
 - . under and/or over and/or around strength members
 - . under and over the armouring (wire, tape)

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