

## Cable Products

### Nonwoven-polyester film waterblocking laminate

#### DATA SHEET

**3L5542**

Properties (23°C, 50% RH)	Nominal value	Unit	Test methods = LANTOR® method
Mass per unit area	150	g/m <sup>2</sup>	ISO 9073-1 = KE030
Thickness	0.29	mm	ISO 9073-2 = KE050
Tensile strength	100	N/cm	ISO 9073-3 = KE060
Elongation	15	%	ISO 9073-3 = KE060
Surface resistance	-	Ω/[ ]	IEC 167 = KE200
Volume resistivity	-	MΩ.cm	DIN 54345, Part 1 = KE276
Moisture content (ex works)	3	%	110°C (halogen drying) = KE186
Swelling speed (first min.)	9	mm/min.	Eur. HD 605 S1/A1 = KE100
Swelling height (final in 2 min.)	10	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
Breakdown voltage	8	kV (AC)	IEC 243
Composition	Polyester Polyacrylate Waterswellable powder / Lamination to <u>50</u> μm PETP-film		
	12 μm (3L1542) or 23μm (3L2542) or 75μm (3L7542) on request		

Used in communications cables, over the jelly-filled core (copper pairs/quads, loose tubes); 3L1542, 3L2542 and 3L5542 with 12 μm, 23 μm and 50 μm polyester film respectively, are used in copper cables with a dielectric strength requirement between conductor and metal screen/radial water barrier.

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