

Cable Products

Nonwoven-polyester film waterblocking laminate

DATA SHEET

3L2542

Properties (23°C, 50% RH)	Nominal value	Unit	Test methods = LANTOR® method
Mass per unit area	105	g/m ²	ISO 9073-1 = KE030
Thickness	0.25	mm	ISO 9073-2 = KE050
Tensile strength	70	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	5.5	kV (AC)	IEC 243
Composition	Polyester Polyacrylate Waterswellable powder / Lamination to 23 μm PETP-film		
	12 μm (3L1542) or 50μm (3L5542) 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.

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.