

Product data sheet

3SY / 3WY

Waterblocking yarns

Rev. date : 06-2007

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Description

- Excellent swelling and blocking performance
- Low dust
- No fibre fly

Technical Data

Properties (23 °C, 50% RH) (Nominal values)	Unit	3SY008	3SY011	3SY020	3WY017	3WY025	3WY055
Diameter dry	mm	0.4	0.6	1.0	1.5	2.0	3.5
Diameter wet (calculated)	mm	1.5	1.7	3.5	5.0	6.0	9.0
Weight dry							
Mass per unit length	g/m	0.09	0.12	0.22	0.5	1	2
Mass per 9,000 m	denier	850	1100	2000	4500	9000	18000
Mass per 10,000 m	dtex	945	1222	2222	5000	10000	20000
Length per unit weight	km/kg	10.6	8.2	4.5	2	1	0.5
Weight wet final in ≤ 30 seconds							
Water absorbency	g/m	> 2.7	> 3	> 6.6	> 15	> 35	> 60
Water absorbency	g/g	> 30	> 25	> 30	> 30	> 35	> 30
Tensile strength	N	> 12	> 15	> 20	> 40	> 78	> 90
Elongation	%	> 12	> 12	> 12	> 12	> 12	> 12
Service temperature	°C	≤ 100					
Processing temperature	°C	≤ 200					
Composition	Polyester. Super absorbent polymer						

Application

- As filler or in cross lay in various type of cables and dry core cable design e.g.
- Watertight conductors, central filler, cross lay over the strands.
- Filler between the cores of multi core cables or in quads of Cu cables.
- Binder and waterblocking over a multi core cable, single yarn or in cross lay.

Make up

Standard *	Unit	Cone	Tube (3WY025, 3WY055)
Weight	g	65	75
Yarn weight	kg	3.7	5.8
Length	mm	230	290
Traverse length	mm	200	260
Wall thickness	mm	2	7
Inner diameter (base/top)	mm	72 / 33	54
Vertical angle	°	3.30	-

*) Other available delivery forms on request

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