

## PRODUCT INFORMATION

# ELEPHANTIDE GRADE 3

## PRODUCT DESCRIPTION

Elephantide Grade 3 consists of blue cotton (material and cellulose). Grade 3 exhibits a unique combination of electrical strength, mechanical toughness and flexibility and has great durability, even under the most arduous conditions.

## MANUFACTURING PROCESS

The furnish is made up of cotton thread and cellulose, which is mechanically and hydraulically processed before forming on a multi-cylinder machine.

## APPLICATIONS

Grade 3 is most frequently used as transformer insulation in its pure form, however when laminated it becomes polyester film. Grade 3 is also used as motor slot and overhang insulation in Class E (120°C) rotating machines, as well as a wide variety of other electrical, domestic and industrial appliances.

## TECHNICAL INFORMATION

PROPERTIES	UNIT	Range of thickness in mm	VALUE
Apparent density	G/cm <sup>3</sup>		1
Tensile strength MD	Mpa	≤0.2 >0.2	99 91
Tensile strength CMD	Mpa	≤0.2 >0.2	42 40
Elongation MD	%	≤0.2 >0.2	2.3 2.8
Elongation CMD	%	≤0.2 >0.2	6.9 7.8
Moisture Content	%		<8.0
Ash content	%		0.3
Conductivity of aqueous extract	ms/m		3.7
pH of aqueous extract			7.2
Electrical strength in air unfolded	Kv/mm	≤0.2 >0.2	10 7
Electrical strength in oil	Kv/mm	≤0.2 >0.2	75 55