



## PRODUCT DATA SHEET

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### “FUTURA” FLAME RETARDANT FIBRE

“Futura Flame Retardant Polyester fibre is made by chemical modification of the polyester resin. The Flame Retardancy is imparted at the molecular level during manufacture of the polyester resin and will not wash or wear out in the fabric on usage. Futura FR is halogen free and is based on phosphorous compounds. Futura FR conforms to ASTM D 2863 and ASTM D 6413 standards and will meet most of the international requirements for LOI and flammability tests.

#### Features

- ❖ LOI value of  $\geq 28$
- ❖ Durable, Permanent Flame Retardant properties.
- ❖ Environmentally acceptable flame retardants used.
- ❖ No leaching of additive or loss of Flame Retardancy due to washing/ Repeated usage.
- ❖ Available in White and dope dyed shades.

#### Specifications

Characteristics	Unit	Specification	Futura Test Method
Denier	No.	$1.4 \pm 5\%$	FPL – WI – 20-25-08
Tenacity	gpd	$5.4 \pm 0.2$	FPL – WI – 20-25-08
Elongation	%	$24 \pm 4$	FPL – WI – 20-25-08
Finish	%	$0.18 \pm 0.02$	FPL – WI – 20-25-02
Crimps	No./Inch	$11 \pm 1$	FPL – WI – 20-25-06
LOI	%	$> 28$	ASTM D - 2863

**Denier:** Range between 1.4 and 12.0 denier

**Cut length:** 27, 32, 38, 44, 51, 60, 64, 76, 89 and 102 mm.

**Lustre:** Bright, Semi-dull

#### Applications:

- All Textile / Non-woven applications, where Flame Retardancy is required like
- o Curtains, Wall coverings
  - o Carpets, Seat Cover
  - o Bed cloths, Upholstery, Filling materials
  - o Children’s wear
  - o Tents

**PACKING:**

Bale Wrapper:	Woven HDPE/PP with inner PE liner.
Bale Dimensions:	1120 x 700 x 1070 mm.
Net Weight per bale:	320 – 350 Kgs
Quantity in 1 x 40' FCL:	25000 kg. approx.

**Safety Aspects:**

o Please refer the MSDS of Futura Polyester Staple Fibre / Tow

**b) Handling & Storage****Handling (Personnel):**

Avoid breathing hot vapors, oil mists and airborne fibres, wash thoroughly after handling.

**Personal Precautionary Measures:**

No special precautionary measures should be needed under anticipated conditions of use

**Storage:**

Store cartons and bales in accordance with good material handling practices.

**c) Prevention of Fire and Explosion**

Keep away from contact with oxidizing materials. Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

**Contact Address:**

FUTURA FIBRES

A division of FUTURA POLYESTERS LIMITED Tel: 91 44 2594 1313 - 17

1-A Kamarajar Salai,

Fax: 91 44 2594 1566, 1054

Manali, Chennai - 600 068

E-mail: <[furach@futurapolyesters.com](mailto:furach@futurapolyesters.com)>

India

Website: [www.futurapolyesters.com](http://www.futurapolyesters.com)

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