

FLAME RETARDANT PET YARNS



FLARET™ is environmental friendly flame retardant polyester of P (phosphorus) type

Flame retardant agent is anchored into the polymer chain
→ Flame retardant performance does not decrease by usage or time

- **Slow combustion and self-extinguishment**
: Poly-phosphoric acid is created from flame retardant agent by pyrolysis when burning
→ Poly-phosphoric acid is formed a kind of carbon layer (like charcoal), and it cuts off oxygen & ignition energy
- It has complete versatility in all versions : solution dyed functionalized PET, UV Stabilized and Anti-Bacterial

LOI, Limit Oxygen Index

The flame retardant characteristics of a material are expressed by its LOI Index. The LOI indicates the minimum amount of oxygen required for a Fibre to burn. The percentage of oxygen in the air is about 21%, fibers with a higher LOI tend not to burn. Starlight ® FR can be ranged among fibers with a higher LOI value



Certifications, Regulatory Framework

Products made with FR yarns meet the requirements set by the main international standards as listed below:

Country	Regulation	Entity	Results
Belgium	NF P92 503.4.5	Centexbel	M1
U.K.	BS 5867	BBTG	Type B
Italy	UNI 9177	CSI-CTS	Class 1
Germany	DIN 4102 Part1	TUV	B1
U.S.A.	NFPA701	Omega POINT	Passed
Denmark	IMO FIBC part 2	DIFT	Passed

The relevant legislation is complex and not fully unified at European and International levels; based on the markets and applications, several different test methods are requested.

Tepar is ready to cooperate with its customers for passing any specific test required.

Available in;

FDY	SD	50/36, 68/24, 75/24, 75/36, 75/72, 150/48, 150/96
	SBR	50/24, 75/36, 90/36, 150/72, 300/144
DTY	SD	
	SBR	20/1, 75/36, 75/72, 100/36, 150/48, 150/96, 150/144, 300/96
	DD	
ATY	SD	330/96, 550/144, 600/144, 670/192, 730/192, 970/288, 1100/288
	SBR	
	DD	1270/384, 1600/480, 1900/576, 2600/504



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