

PYROMEX® Spun Yarns

Pyromex® is a family of oxidized *poly*-[acrylonitrile] (PAN) fibers. These fibers have a Limiting Oxygen Index (L.O.I.) of between 50 - 60% oxygen, making Pyromex® much more flame resistant than many other organic fibers such as PBI® (41%), Nomex® (30%), or Kevlar® (28%). For carbon/carbon applications, the low sodium content of these fibers may aid in processing and performance. Toho Tenax reserves the right to upgrade manufacturing processes and raw materials without notice, in compliance with our approach on oxidized PAN fiber product improvement.

Yarn Type		CPY 1/20	CPY 1/11	CPY 2/11
Metric Count		20.0	11.3	5.65
Worsted Count		17.7	10.0	5.0
Number of Plys		1	1	2
Yield	[g/m]	0.05	0.09	0.18
Twist: Singles	[tpi]	10.6z±1.06	7.5z±0.75	7.5z±0.75
	Plys [tpi]	N/A	N/A	5s ± 1.5
Elongation	[%]	8.0 Min	8.0 Min	8.0 Min
Break Strength	[lb]	1.1 Min	2.0 Min	4.0 Min
Density	[g/cm ³]		1.41 ± 0.02	
Moisture Regain	[%]		9.0 ± 2.5	
Standard Bobbin Size	[kg]	1	2	1
Bobbins per Case		30	16	30
Weight of One Case	[lb]	66.14	70.55	66.14

Conical Paper tube, 2½ ID X 3/4 ID X 7 inches, nominal

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