

Toyobo Zylon® AS Poly(p-phenylene-2,6-benzobisoxazole) Fiber

Category : Polymer , Thermoset

Material Notes:

Property data below is for 1.5 denier fiber. Poly(p-phenylene-2,6-benzobisoxazole) (PBO) is a rigid-rod isotropic crystal polymer. Zylon is a new high performance fiber developed by TOYOBO using the latest material science and state of the art fiber technology. Zylon has superior tensile strength and modulus compared to p-Aramid fibers. It also has outstanding high flame resistance and thermal stability. Zylon shows excellent performance in such properties as creep, chemical resistance, cut/abrasion resistance and high temperature abrasion resistance, that far exceeds p-Aramid fibers. Zylon's moisture regain is low (0.6%) and it is dimensionally stable against humidity. Zylon is quite flexible and has a very soft hand, in spite of its extremely high mechanical properties. It can be processed into various product forms, such as continuous filament, staple fiber, spun yarn, woven and knitted fabrics, chopped fiber and pulp. Data provided by Toyobo Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-Zylon-AS-Polyp-phenylene-26-benzobisoxazole-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	
Moisture Absorption at Equilibrium	2.0 %	2.0 %	at 65% RH
	3.5 %	3.5 %	at 90% RH

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	5800 MPa	841000 psi	
Elongation at Break	3.5 %	3.5 %	
Tensile Modulus	180 GPa	26100 ksi	
Tenacity	3.71 N/tex	42.0 g/denier	

Thermal Properties	Metric	English	Comments
Decomposition Temperature	650 °C	1200 °F	
Oxygen Index	68 %	68 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.comEmail : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China

