

PROPERTIES OF PBI STAPLE FIBER

PROPERTY	ENGLISH UNIT	METRIC UNIT
DPF	1.5 denier	1.7 dtex
Tenacity	2.7 g/d	2.4 dN/tex
Breaking Elongation	27%	27%
Initial Modulus	45 g/d	40 dN/tex
Crimp	9.5/inch	3.7/cm
Finish	0.35%	0.35%
Specific Gravity	1.4	1.4
Moisture Regain @68°F (20°C) 65% RH	15%	15%
Boiling Water Shrinkage	<1.0%	<1.0%
Hot Air Shrinkage @400°F (205°C)	<1.0%	<1.0%
Specific Heat	0.3 BTU/lb. F	1.3 KJ/(Kg*K)
Limiting Oxygen Index	>41%	>41%
Surface Area Resistivity @70°F (21°C), 65% RH	1xE10 ohms/square	1xE10 ohms/square
Color	Gold	Gold
Standard Cut Length ¹	1/8, 1/4, 1 1/2, 2, 3, 4 inch	3, 6, 38, 50, 76, 100 mm
Thermal Conductivity	0.022 BTU/hr.ft. F	0.038 W/(m*K)

¹Other cut lengths may also be available



PBI Staple Fiber



Cross Section of PBI



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