

Hexcel® HexForce™ 1629 Aramid Fabric

Category: Other Engineering Material, Composite Fibers, Polymer, Thermoset, Aramid

Material Notes:

Hexcel manufactures aramid fabrics for use in aerospace applications as well as marine, tooling and recreational products where high strength, low weight, and impact resistance are essential. Aramids display excellent dimensional stability with a slightly negative coefficient of thermal expansion (-2.4 X 10-6/°C.) They are resistant to chemicals with the exception of a few strong acids and alkalis. Aramids have excellent stability over a wide range of temperatures for prolonged periods. They show essentially no embrittlement or strength loss at temperatures as low as -320°F (-196°C). Aramids do not melt or support combustion but will start to carbonize at approximately 800°F (427°C). Information provided by Hexcel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexForce-1629-Aramid-Fabric.php

Physical Properties	Metric	English	nglish Comments	
Thickness	262 microns	10.3 mil		
Fiber Count	1670 dtex	1500 denier	Warp yarn; Kevlar® 100	
	1670 dtex	1500 denier	Fill yarn; Kevlar® 100	

Mechanical Properties	Metric	English	Comments
Tensile Impact	414 J/cm	775 ft-lb/in	Warp
	419 J/cm	785 ft-lb/in	Filling

Thermal Properties	Metric	English	Comments
CTE, linear	-2.40 μm/m-°C	-1.33 μin/in-°F	
Maximum Service Temperature, Air	427 °C	801 °F	starts to carbonize
Minimum Service Temperature, Air	-196 °C	-321 °F	

Descriptive Properties	Value	Comments
Fabric Weight (oz/yd2)	5.2	Dry
Nominal Construction (count/in)	14	Warp
	14	Fill
Weave Style	Plain	

Contact Songhan Plastic Technology Co.,Ltd.



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