

Kuraray Vectran® UM 1500/300 LCP Fiber

Category : Other Engineering Material , Composite Fibers , Polymer , Thermoplastic , Liquid Crystal Polymer (LCP)

Material Notes:

Vectran® is a high-performance multifilament yarn spun from liquid crystal polymer (LCP). Vectran® fiber exhibits exceptional strength and rigidity. Pound for pound Vectran® fiber is five times stronger than steel and ten times stronger than aluminum. Vectran® features: High strength and modulus Excellent creep resistance High abrasion resistance Excellent flex/fold characteristics Minimal moisture absorption Hydrolytically stable Resistance to organic solvents Stable to acids (

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Vectran-UM-1500300-LCP-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	65% RH
Loss On Ignition	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength	3000 MPa	435000 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	103 GPa	14900 ksi	Initial Modulus
Tenacity	0.794 N/tex	9.00 g/denier	

Thermal Properties	Metric	English	Comments
Melting Point	350 Å°C	662 Å°F	
Decomposition Temperature	>= 450 Å°C	>= 842 Å°F	20% weight loss; TGA
Shrinkage	<= 0.1 %	<= 0.1 %	Hot Air
	@Temperature 180 Å°C, Time 1800 sec	@Temperature 356 Å°F, Time 0.500 hour	
Shrinkage	<= 0.1 %	<= 0.1 %	Boiling Water
	@Temperature 100 Å°C, Time 1800 sec	@Temperature 212 Å°F, Time 0.500 hour	

Electrical Properties	Metric	English	Comments
Dielectric Constant	<= 3	<= 3	
	@Frequency 1e+10 Hz	@Frequency 1e+10 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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