

Marktek Inc.

Your One-Stop Shop for EMI-Shielding, Conductive, Resistive, & Microwave-Absorptive Materials

Data Sheet for Thunderon® Conductive Fibers

General Description: Acrylic and nylon fiber coated with copper sulfide

Standard Product Forms

Acrylic

Staple: 1.5Dx38mm, 2Dx51mm, 2Dx5mm, 3Dx76mm, 7Dx102mm, 7Dx76mm, & 10Dx5mm
Filament: 75/25, 100/50, 100/10, textured 50/30, 75/40, & 100/40
Spun yarn: 1/80, 1/64, 2/52

Nylon

Filament: 100/24, textured 40/13

Properties of Thunderon® Acrylic and Nylon Filament Yarns

Property	Acrylic	Nylon
Tenacity, g/d	2.8-3.0	4-4.5
Elongation, %	22-24	25-30
Specific Gravity	1.18	1.16
Moisture Pick-up, %	2.0	4.5
Melting/Softening Range, BC	190-240	180-190
Volume Resistivity, ohm-cm	0.01-0.1	0.01-0.1
Linear Resistance, kohm/cm	0.5-1.5	0.5-1.5
Laundering Resistance		
	in either water only, soap, neutral detergent, or dry cleaning – all greater than 40 washings	
	in chlorine bleach – up to 20 washings	

Applications: electrostatic dissipative (ESD) wristbands, brushes, gloves, garments, booties, chairs, covers, linings, and carpeting; hygienic and healthcare clothing, wraps, and insoles; microwave absorption

Advantages: abrasion resistance, fine texture for comfort, unmatched corona discharge, high conductivity, launderability, & strong antibacterial/deodorizing effect

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