



GRS-META ARAMID Technical Data Sheet

GRS Innovation LLP

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Our Meta-Aramid staple fibre is a high-performance aromatic polyamide engineered for safety and reliability in extreme environments. It offers inherent flame retardancy, thermal stability up to 200°C continuous use, and strong resistance to chemicals and abrasion. Widely used in protective clothing, industrial filtration, and electrical insulation, its built-in protection never washes out or wears off, ensuring long-term performance and sustainability.

<Key Features>

- Inherent Flame Retardancy (Never washes out)
- Thermal stability up to 200°C for continuous use
- Strong resistance to chemicals and abrasion
- Non-conductive and excellent electrical insulation

Available Forms:

Meta Aramid Recycle Staple Fibre

Fineness: 1.7 Dtex, 2.2 Dtex

Staple Length: 32 mm, 51 mm

Colors: White, Navy, Royal Blue, Orange, etc.

Applications:

Protective Clothing | Industrial Filtration | Electrical Insulation | Gaskets & Packing

< ATTRIBUTE >	< SPECIFICATION >
Fibre Type	Meta Aramid Fibre
Linear Density	1.38 g/cm³
Fineness	1.7 Dtex / 2.2 Dtex
Tenacity	4.5 cN/Tex
Diameter	12–16 Micron
Thermal Stability	Decomposition above 400°C; no melting, no dripping
Limiting Oxygen Index (LOI)	> 28
Service Temperature	Up to 200°C
Moisture Regain	~4.5%
Chemical Resistance	Excellent against Acid, Alkali, and Organic Solvent

Electrical Properties

< ATTRIBUTE >	< SPECIFICATION >
Volume Resistivity (dry)	$\sim 10^1 \Omega \cdot \text{cm}$
Dielectric Strength	High, suitable for insulation applications

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