



P109 – High Performance E-Glass Multi End Rovings

PRODUCT DESCRIPTION

P109 Multi-end Rovings are made from E-Glass basic strands (or ends), assembled with no intentional twist. P109 Rovings are coated with a silane based sizing which makes it compatible with most commonly used thermoset resins. P109 Rovings are intended for production of composites structures with exceptional static and fatigue strengths.



PRODUCT REFERENCE

P109 Rovings can be used in a large variety of textile processes:

- filament winding (dry and wet process)
- unidirectional pre-pregging (dry and wet process)
- pultrusion
- weaving (woven or knitted fabrics)
- assembling with thermoplastics fibers



FEATURES	PRODUCT BENEFITS
• ENVIRONMENT FRIENDLY GLASS (BORON & FLUORINE FREE)	• EASY UNWINDING
• HIGH MODULUS	• VERY GOOD WET-OUT AND IMPREGNATION
• HIGH FATIGUE RESISTANCE	• HIGH STRAND INTEGRITY
• EXCELLENT MECHANICAL & THERMAL PROPERTIES	

TECHNICAL CHARACTERISTICS (Nominal values)

REFERENCE	FILAMENT DIAMTER (µm)	LINEAR DENSITY (tex) ISO 1889 : 1987			LOSS OF INGNITION LOI (%) ISO 1887 : 1980			MOISTURE CONTENT MOI (%) ISO 3344 : 1977
		LT	V	UP	LT	V	UP	UP
EC9 756 P109	9	700	756	812	0.56	0.70	0.84	0.20

LT: Lower tolerance

V: Target Value

UP: Upper tolerance

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Multi End Rovings

(*) For external unwinding, rovings are supplied on a cardboard tube with int. Ø 76.6 mm (ext.Ø 82 mm), 270 mm long.

STORAGE

The P109 Rovings should be stored dry in their original packaging.

The best conditions are:

- Temperatures between 15°C and 35°C.
- Humidity between 35% and 65%.

If the product is stored at low temperature (below 15°C), it is advisable to condition it in the workshop for at least 24 hours before use, to prevent condensation.

REFERENCE	ROVINGS CHARACTERISTICS (nominal values)			
	Diameter		Height (mm)	Net weight (kg)
	Internal	External		
EC9 756 P109	76.6(*)	190	255	9.14 ± 0.6

PALLET CHARACTERISTICS (collective packaging)			
Layers per pallet	Bobbins per layer	Bobbins per pallet	Pallet dimensions L x W x H (mm)
3	20	60	120 x 100 x 104

Each bobbin is protected by a polyethylene bag and placed with a centring device in a cardboard box. The pallets are wrapped by a stretched film.

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