

➤ APPLICATION

N621 is an E glass direct roving, designed for filament winding and it is also suitable for use in weaving. This product is compatible with resins: polyesters, vinylesters and epoxy.

N621 is reinforcement mainly used for filament winding fuel and chemical storage tanks, large diameter pipe, water treatment vessels, pressure vessels, reverse osmosis tubes and electrical fuse tubes.



➤ FEATURES

- Uniform yield
- No fuzz and no catenary
- Very low moisture content
- Excellent packaging run out and transfer
- Fast and complete wet out with most resins
- Excellent mechanical properties with polyester, vinylester and epoxy resins
- Good composite translucency
- Very high tensile strength filament design
- Complies with JIS R3412:1999, DIN 61855:1987 and BS3691:1990

➤ USER BENEFITS

- Supplying 100% (in weight) of complete cheeses, without any incomplete cheese
- Flexible roving yield / tex densities design according to the customers' specific requirement
- Better productivity, less storage space, fewer pallet changes
- Meets or exceeds physical properties requirements for a broad range of applications
- More complete glass utilization and reduced labor costs

➤ PRODUCT DESCRIPTION

Property		Testing Method	Description					
Glass Type		ISO 2078 : 1993	E-glass					
Glass Sizing		ISO 2078 : 1993	Silane					
Nominal Size Content (%)		ISO 1887 : 1995	0.55 ± 0.15					
Moisture Content (%)		ISO 3344 : 1997	<0.1					
Roving Yield, nominal ± 5% (yd/lb.)		ISO 1889 : 1997	827	675	413	207	115	105
Tex, nominal ± 5% (g/km)		ISO 1889 : 1997	600	735	1200	2400	4400	4800
Fiber Diameter, nominal		ISO 1888 : 1996	N	L	N	T	U	U
Micrometers, μm (in x 10 ⁻⁵)		ISO 1888 : 1996	17 (67)	14 (55)	17 (67)	23 (91)	24 (94)	24 (94)
Tensile Strength		ISO 3341 : 2000	1300MPa (188,540psi)					
Flexural strength of polyester laminate	- Dry	ISO 3597 : 1997	1163MPa (168,670psi)					
	- Wet	ISO 3597 : 1997	1104MPa (160,110psi)					
Strength Retention		ISO 1172 : 1996	95%					

➤ **PRODUCTS AVAILABLE**

Product	Characteristics of cheeses			
Type	Nominal Diameter (mm)		Nominal Height (mm)	Weight (kg)
	Internal	External		
Tubeless	160 (6")	310 (12.2")	260 (10")	22(48.5lbs)

➤ **INDIVIDUAL AND BULK PACKAGING**

- Individual packaging: Each cheese is packaged in shrink wrap plastic film which should be retained in place during unwinding.
- Bulk packaging: Cheeses are palletized and enclosed with a cardboard cover and a stretched film

Type	Cheeses per pallet	Layers per pallet	Cheeses per layer	Pallet dimensions L x W x H (mm)	Net weight Approximate (kg)	Gross weight Approximate (kg)
Tubeless	36	3	12	1270 x 960 x 940	792	822
	48	4		1270 x 960 x 1180	1056	1086

➤ **SHIPMENT (Standard ref.)**

Destination	20' container (Sea transport)			
	Europe and Asia		North America	
Type	Number of pallets (maximum)	Net weight (kgs) (maximum)	Number of pallets (maximum)	Net weight (lbs) (maximum)
Tubeless	20*	18,480	20*	40,740

* On two levels : 1 level of pallets with 4 layers and 1 level of pallets with 3 layers.

➤ **STORAGE**

The roving should be stored away from heat and moisture, and in their original packaging. The best conditions are at temperatures between 15°C and 35°C and at a relative humidity between 35% and 85%. If the product is stored at lower temperature (below 15°C), it is advisable to condition the product in the workshop for at least 24 hours before use, to prevent condensation. This product must be used within 12 months of delivery.

The pallets can be stored in 2 levels (1/1). We recommend that the material be used according to FIFO (first in, first out) method.

These data, which are subject to change, are offered solely as a guide in the selection of reinforcement. The information contained in this publication is based on actual laboratory data and field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability arising out of its use or performance. Users of our products should make their own tests to determine the suitability of each such product for their particular purposes. Nothing contained in this brochure is to be understood as authorization or recommendation to infringe any patent or violate any law or safety code.



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