



Uniflo® for Closed Molds

U614, U801, U809, U812, U813, U814, U816, U817, U822, U850, U852, U854

PRODUCT DESCRIPTION

Uniflo® is an E-glass continuous filament mat consisting of randomly oriented strands in multiple layers held together with a suitable binder and with a silane coupling agent.

- U801 can be used for:
 - parts produced by foaming polyurethane, at low density
 - complex parts moulded at low pressure
- U809 is especially suited for Polyurethane foam reinforcement and widely used in LNG carrier thermal insulation
- U614, U812, U813, U814, U816, U817, U822, can be used for:
 - parts moulded by RTM, L-RTM, infusion or wet compression with UP, VE, EP and PU resins
 - gypsum parts with improved fire resistance and mechanical properties
- U850, U852, U854 are suited especially for moulding with highly filled resins. Super performances met by infusion thanks to the core in 50 tex.



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PRODUCT REFERENCE

Example : U850 450 – 138

- U : Continuous strand mat (Uniflo®)
- 850 : Product classification code
- 450 : Nominal weight per unit area (g/m²)
- 138 : Roll width (cm)

FEATURES AND PRODUCT BENEFITS

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| • U614(*): closed molds mat | • Easy unrolling, cutting and handling |
| • U801: low binder content | • Good adaptability to complex shapes |
| • U809: very low binder content | • Even dispersion in PU matrix during foam expansion |
| • U812 to U822: rising binder content and rigidity | • Easy unrolling, cutting and handling |
| • U850, U852, U854: core made with higher strand tex | • Outstanding resin flow |

(*) Advantex glass / Available only for NA Market

TECHNICAL CHARACTERISTICS (NOMINAL VALUES)

REF.	SIZING	BINDER TYPE	SOLUBILITY IN STYRENE	LINEAR WEIGHT OF BASIC STRANDS (TEX)	LOSS ON IGNITION (%)	MOISTURE CONTENT (%)
				Iso 1889	Iso 1887	Iso 3344
U614	Saline	Polyester	Low	36	4.5	< 0.15
U801				25	1.6	< 0.15
U812				25	2.2	< 0.15
U822				25	2.0	< 0.15
U813				25	3.5	< 0.15
U814				25	4	< 0.15
U816				25	6	< 0.15
U850				25/50/25	6	< 0.15
U852				25/50/25	2.5	< 0.15
U854				25/50/25	4	< 0.15
U809				25	0.9	< 0.15
U817				25	7	< 0.15

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VISUAL CHARACTERISTICS OR POSSIBLE DEFECTS

Type A: coarse strands

Type B: cluster of glass fiber

Type C: water spots

Type D: binder spots, dirt and foreign matters (diameter below 30 mm)

Type E: hole

Maximum number of defects allowed: each 100 lm Uniflo® roll section may contain at most 5 of the above listed defects.

PRODUCT AVAILABILITY

Available widths from 50 to 300 cm

ROLL WIDTH (cm)	STANDARD WEIGHTS (g/m ²)	APPROXIMATE DIMENSIONS OF FULL* ROLL, 100 CM WIDE <full roll>: a roll having a guaranteed length of at least 90% of the value indicated above.											
		Nominal length (m)											
		Diameter (cm)	U801	U812 U822	U813 U814	U816 U817	U850	U854	U852	U809	U614		
100	100	55			600								
	150				360								
	225		235	250	250	260	270	250	260				
	300		190	200	205	210	220	205	210				
	450		125	130	135	140	155	135	140				
	600		80	85	90	90	100	90	95				
	900		65	70	75	75	85	75	75				
			Nominal weight (kg)										
100	100	55			60								
	150				54								
	225		52	57	57	59	61	57	59				
	300		57	60	62	63	66	62	63				
	450		56	59	61	63	70	61	63	56			
	600		48	51	54	57	63	54	57	51			
	900		59	63	78	68	77	78	68				

PACKAGING

- Each roll of Uniflo® is wound up onto a cardboard tube of 0.7 kg/m with 103 mm internal diameter, then individually wrapped with a transparent protective film.
- Pallet type:
 - Rolls ≤ 205 cm width: standard pallet (vertical rolls 14 x 114cm)
 - Rolls > 205 cm width: wooden crate (horizontal rolls).
- Pallet protection:
 - Standard pallet = shrink-wrapped (cardboard base and cover)
 - Wooden crate = each roll packaged in a polyethylene bag.

LABELING

- Each roll carries an information label with product reference.
- Each pallet carries also an information label with: product reference, gross and net weights, the number of rolls on the pallet and their net weight.

STORAGE

Uniflo® mat must be stored in its original packaging in a place with no humidity and heat. The best conditions are temperatures between 15 and 35°C and a relative humidity level between 35 and 85%. If the product is stored at lower temperature (below 15°C), we recommend to condition it inside the workshop for at least 24 hours prior using, to prevent condensation.

On site stacking of pallets is possible on (1/1) only. Please use a plywood plank between the two pallets to avoid damage the lower pallet.

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