

## Unifilo® Continuous Filament Mat (CFM)

Unifilo® reinforcements are a range of continuous filament mat in multiple layers of randomly oriented glass fiber strands held together with a binder.

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SIZING	BINDER TYPE	LOSS ON IGNITION (%)	TEX	WEIGHT (GR/M <sup>2</sup> )	WEIGHT (OZ/FT <sup>2</sup> )	WIDTH (CM)	WIDTH (IN)	APPLICATION/ PROCESS	CHARACTERISTICS & BENEFITS
M8643	Liquid	2.25-6.75	24	From 225 to 900	From 0.75 to 3	up to 213	up to 84	Pultrusion	Stiffer mat for an improved tensile strength, and fast pultruding speeds; standard product for the US market.
U527	Liquid	4-4.4	25	From 225 to 900	From 0.75 to 3	up to 300	up to 118		Soft mat, for easier conformability; white color
U528	Liquid	4.2-6	25	From 225 to 900	From 0.75 to 3	up to 300	up to 118	Standard mat for the European market; white color	Stiffer mat for an improved tensile strength, and fast pultruding speeds; standard product for the US market; white color
U529	Liquid	5.8-6.2	25	From 225 to 900 <sup>2</sup>	From 0.75 to 3	up to 300	up to 118		Stiffer mat for an improved tensile strength, and fast pultruding speeds; standard product for the US market; white color

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U614	Liquid	4.5	36	From 225 to 900	From 0.75 to 3	up to 213	up to 84	RTM, light-RTM, wet compression, resin infusion molding, S-RIM	Only available for the US market; easy unrolling, cutting and handling Medium-high conformability; ideal for molds of complex shape
U812	Thermoset Powder	2.2	25	From 225 to 900	From 0.75 to 3	up to 300	up to 118		Standard product with medium conformability, easy unrolling, cutting and handling
U813	Thermoset Powder	3.5	25	From 100 to 900	From 0.34 to 3	up to 300	up to 118		Standard product with limited conformability, ideal for simple shapes; few loose fibers; easy unrolling, cutting and handling
U816	Thermoset Powder	6	25	From 100 to 900	From 0.34 to 3	up to 300	up to 118		Highly conformable material (waste and molding time reduced by up to 50%), with good translucency and excellent thermal resistance (can bear up to 200°C with no permanent damage); strong needling to reduce the risk of loose fibers
Uniconform® UM2A	No binder (mechanically bonded)	N/A	25	From 300 to 2400	From 1 to 8	125 & 250	49 ¼ & 98 ½	Light-RTM	

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Uniconform® UM2B	No binder (mechanically bonded)	N/A	25/50	From 300 to 2400	From 1 to 8	125 & 250	49¼ 98½	Light-RTM	Highly conformable material (waste and molding time reduced by up to 50%), with good translucency and excellent thermal resistance (can bear up to 200°C with no permanent damage); light needling to improve finish surface; the coarser filaments (50 tex) provide outstanding resin flow and fast wet-out
Uniconform® UM5B	No binder (mechanically bonded)	N/A	25/50	From 300 to 2400	From 1 to 8	125 & 250	49¼ 98½		Highly conformable material (waste and molding time reduced by up to 50%), with excellent thermal resistance (can bear up to 200°C with no permanent damage); light needling to improve finish surface; the coarser filaments (50 tex) provide outstanding resin flow and fast wet-out; stiffer and less translucent than UM2A and UM2B
Multiconform® UM2P	No binder	N/A	25/50	From 780 to 1980	From 2.5 to 6.5	125 & 250	49¼ 98½		Equivalent to UM2B with PP core to enhance conformability and reduce compressibility

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U852	Thermoset powder	2.5	25/50	From 225 to 900	From .75 to 3	up to 300	up to 118	Infusion	Product specially designed for resin infusion process; the coarser filaments (50 tex) in the core provides outstanding resin flow and fast wet-out; it can also be used in molding complex shapes with highly filled resins
U850	Thermoset powder	6	25/50	From 225 to 900	From .75 to 3	up to 300	up to 118		
U720	Thermoplastic powder	10	25	From 300 to 900	From 1 to 3	up to 300	up to 118	Preforming	Product designed for automatic stiff preforming; excellent strength and durability of preforms
U740	Thermoplastic powder	8	25/50	From 300 to 900	From 1 to 3	up to 300	up to 118		Product designed for heavy preforming in highly filled resins; the coarser filaments (50 tex) provide outstanding resin flow; non-calendared mat to increase thickness
U746	Thermoplastic powder	6	25/50	From 300 to 900	From 1 to 3	up to 300	up to 118		Product designed for soft preforming in highly filled resins; the coarser filaments (50 tex) provide outstanding resin flow; non-calendared mat to increase thickness

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U750	Thermoplastic powder	8	25/50	From 300 to 900	From 1 to 3	up to 300	up to 118	Preforming	Product designed for heavy preforming in highly filled resins, the coarser filaments (50 tex) provide outstanding resin flow; calendared mat to reduce the risk of loose fiber
U756	Thermoplastic powder	6	25/50	From 300 to 900	From 1 to 3	up to 300	up to 118		Product designed for soft preforming in highly filled resins; the coarser filaments (50 tex) provide outstanding resin flow; calendared mat to reduce the risk of loose fiber
S750	Thermoplastic powder	8	25/50	From 300 to 900	From 1 to 3	up to 300	up to 118		Product designed with high deformability rate during preforming (Unistretch: enhanced stretchability); for heavy preforming in highly filled resins; the coarser filaments (50 tex) provide outstanding resin flow; calendared mat to reduce the risk of loose fiber

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T754	Thermoplastic powder	4	25/50	From 300 to 900	From 1 to 3	up to 300	up to 118	Preforming	Product designed with transverse oriented properties to enhance mechanical performance in cross direction (Unitop: 60-70 % UD); for soft preforming in highly filled resins; the coarser filaments (50 tex) provides outstanding resin flow; calendared mat to reduce the risk of loose fiber
U801	Thermoset powder	1.6	25	From 225 to 900	From .75 to 3	up to 300	up to 118	PU-forming panels	Softest mat with excellent conformability and good adaptability to complex shape molds; used to reinforce low density polyurethane foams and to produce complex parts molded at low pressure
U809	Thermoset powder	0.9	25	From 225 to 900	From .75 to 3	up to 300	up to 118		Very low binder content allowing even dispersion in the PU matrix during foam expansion; widely used in LNG carrier thermal insulation

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UI01	Thermoplastic powder	4.5	25	From 150 to 600	From 0.5 to 2	up to 300	up to 118	Panels	Good translucency; ideal product to make translucent sheets for building applications (roofing) and panels for trucks and vehicle bodies