



FILAMENT WINDING PRODUCT GUIDE

COMPOSITE SOLUTIONS FOR VARIOUS APPLICATIONS

FILAMENT WINDING

TYPE 30® DIRECT ROVING	RESIN COMPATIBILITY	BENEFITS	POTABLE WATER CERTIFICATION	TEX/MICRONAGE (µm)
SE1200	Polyester/Vinyl Ester/Epoxy	Less drag across contact points produces low fuzz, smooth parts, and improved machine efficiencies.		600/17, 1200/17, 2400/17, 4800/24
111A	Polyester/Vinyl Ester/Epoxy	Designed to maximize strand wet-out and optimize processing and handling.	X	600/17, 1200/17, 2400/17
PipeStrand® S2300	Epoxy	For high-pressure and high-performance epoxy filament winding. Delivers outstanding mechanical properties in aromatic amine-cured epoxies.		600/17, 1200/17, 2400/17, 4800/24
PipeStrand® S4000 HP2	Epoxy	Designed for epoxy wet filament winding. Specific glass grade for high-performance pressure vessels, allowing a weight reduction of 25% vs S2300 by reducing the wall thickness.		600/17, 1200/17, 2400/17
SE2307	Epoxy	Reliable and efficient processing, great burst strength, good aesthetic finishes. Lower tension vs S2300.		600/17, 1200/17, 2400/17, 4800/24
NONWOVENS	RESIN COMPATIBILITY	BENEFITS	POTABLE WATER CERTIFICATION	WIDTH
M524-ECR30S	Polyester	Fast styrene solubility, good surface appearance.		35–2,130 mm
M524-ECR30A	Polyester/Epoxy	Corrosion resistance, smooth surface, good wet-out and wet-through, multi-resin compatible, customized width and length.		35–2,130 mm
M524-ECR50A/3	Polyester/Epoxy			35–2,130 mm
M524-ECR70A/3	Polyester/Epoxy			35–2,130 mm

CONTINUOUS FILAMENT WINDING

MULTI-END ROVING	RESIN COMPATIBILITY	BENEFITS	POTABLE WATER CERTIFICATION	TEX/BTEX/MICRONAGE (MM)
PipeStrand® M7000	Polyester/Vinyl Ester	Reduced resin consumption, easy chopping, excellent mechanical properties, low fuzz, flat lay down and uniform dispersion, great surface quality.	X	2400/67/16
495	Polyester/Vinyl Ester	For highly demanding mechanical performance requirements. Excellent processability.	X	2400/33/13
TYPE 30® DIRECT ROVING	RESIN COMPATIBILITY	BENEFITS	POTABLE WATER CERTIFICATION	TEX/MICRONAGE (MM)
111A	Polyester/Vinyl Ester/Epoxy	Low fuzz. Designed to maximize strand wet-out and optimize processing and handling.	X	600/17, 1200/17, 2400/17, 4800/24
SE1200	Polyester/Vinyl Ester/Epoxy	Less drag across contact points produces low fuzz, smooth parts, and good machine efficiencies.		600/17, 1200/17, 2400/17, 4800/24
NONWOVENS	RESIN COMPATIBILITY	BENEFITS	POTABLE WATER CERTIFICATION	WIDTH
M524-ECR25A	Polyester/Vinyl Ester	Corrosion resistance, smooth surface, good wet-out and wet-through, multi-resin compatible, customized width and length.	X	35–2,130 mm
M524-ECR30A	Polyester/Vinyl Ester			35–2,130 mm

CENTRIFUGAL CASTING

MULTI-END ROVING	RESIN COMPATIBILITY	BENEFITS	POTABLE WATER CERTIFICATION	TEX/BTEX/MICRONAGE (MM)
P219	Polyester	Designed specifically for the manufacture of composite pipes by centrifugal casting. Optimal choppability, excellent processing, impressive mechanical properties.	X	2400/66/13

FITTINGS

PRODUCT FAMILY	PRODUCT NAME	RESIN COMPATIBILITY	BENEFITS	POTABLE WATER CERTIFICATION	GEOMETRY AVAILABLE
Chopped Strand Mat	M123	Polyester	Easy processing, fast wet-out, low resin consumption.		300 & 450 GSM, 125 cm
Continuous Filament Mat	U101	Polyester/Vinyl Ester/Epoxy	Excellent processing, good surface aesthetics, high tensile, and flexural performance.		300 & 450 GSM, 138 cm
Transversal Triaxial Fabrics	TTX800	Polyester	Improved mechanical properties, reduced resin usage and part weight, excellent balance of axial strength and shear resistance.	Pending	800 GSM, 127 mm
Woven Roving Fabrics	WR0800	Polyester	Ease of handling and drapability, rapid wet-out.	Pending	800 GSM, 125 mm*
Woven Roving Fabrics	WR0500	Polyester	Ease of handling and drapability, rapid wet-out.		500 GSM, 125 mm*
Nonwovens	M524-ECR30S	Polyester/Vinyl Ester	Fast styrene solubility, smooth surface.		35–2,130 mm

* Other widths and area weights available upon request.

** Potable Water Certification: These products have been assessed for compliance with different regulations (e.g. EU 10/2011, US FDA, French Drinking Water, German BfR & KTW, etc.). More details can be provided by your contact person within Owens Corning or our Product Compliance Team. For specific product information concerning your application, please contact: productcompliance@owenscorning.com.

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