



Product Selector Guide

Reinforcement Fiberglass



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Our product recommendations for

Reinforcement Fiberglass

- » Chopped Strands for Thermoplastics Compounding
- » Chopped Strands for other Processes
- » Direct Roving
- » Assembled Roving

Fiberglass

Johns Manville Engineered Products manufactures fiberglass in the United States and Europe. We offer engineered fiberglass in chopped strand and roving to a variety of applications, to extend the capabilities of thermoplastics and thermosets, and to reinforce gypsum boards.

ThermoFlow[®] chopped strands exhibit exceptional strand integrity, clean feeding, and uniform fiber distribution.

StarRov[®] single-end roving is perfect for fabric processes as it provides a wide and uniform strand width which allows to produce a superior fabric without gaps. StarRov[®] single-end roving is also the perfect choice as an input for LFT or D-LFT processes, providing excellent mechanical properties, low VOC, perfect bundle opening, fast impregnation, perfect wet-out, high dry strength, and low fuzz.

For SMC processes, MultiStar[®] multi-end roving provides excellent fiberglass distribution, wetting, bonding, and SMC performance. For thermosets MultiStar[®] multi-end roving is optimized for chopping and excellent performance in long-fiber reinforced polyurethane panel production, offering excellent unwinding at high speed, great choppability, and low fuzz generation during processing.

Finally, our DuraCore[®] wet chopped strand is boosting the properties of plasterboard in key areas such as fire performance as well as water and impact resistance.

Chopped Strands for other Processes

StarStran® and ThermoFlow® chopped strands reinforce resins, such as polypropylene, unsaturated polyesters and phenolic. Chop-Pak® and DuraCore® chopped strands are wet dispersible with proven superior performance in HEC and PAA white water, as well as in gypsum slurry.



PRODUCT CHARACTERISTICS			FILAMENT DIAMETER [µm] / REGION		FIBER LENGTH / REGION		RESIN / POLYMER TYPE					CERTIFICATES NA	CERTIFICATES EU	FOOD CONTACT (> 2016)		
TRADENAME	PROCESS	SIZING	NA ▲	EU ●	NA	EU [mm]	PP	UP	PHENOLICS	MAT BINDERS	GYPSUM SLURRIES					
StarStran®	Carding/Needling	991	16	13	51, 102 mm	51	▲●									
	BMC	264		14			6, 12		●							●
		582		13.5			6, 12		●							
		706C	16			1/8", 1/4", 1/2"			▲							
		860		15			6		●							
		862		10.5, 15			4.5, 6, 12		●							
	D-LFT	739	16		1/2"			▲								
	GMT	413	16			1/2"			▲							
423		13, 16			1/2"			▲								
ThermoFlow®	Extrusion/Kneading	701		10, 13		4			●							
Chop-Pak®	Wet dispersible (nonwoven mat)	117	11, 13, 16		1/4", 1/2", 3/4", 1"						▲					
		137	11, 13, 16		1/4", 1/2", 3/4", 1 1/4"						▲					
DuraCore®	Gypsum	300	13, 16	16	1/4", 1/2"	12						▲●	UL	UL		
		301		16			6						●		UL	

Direct Roving

Our StarRov® single-end rovings are manufactured by winding glass fibers directly into a clearly defined tex or yield. Suitable for unsaturated polyester, epoxy, vinylester and thermoplastic resins.



PRODUCT CHARACTERISTICS			REGION		RESIN / POLYMER TYPE	TEX [g/km]	300	410	600	1100	1200	2000	2200	2400	4400	4800	9600	FDA - NA	FOOD CONTACT EU (>2016)¹	
TRADENAME	PROCESS	SIZING	NA ▲	EU ●		YIELD [yds/lb]	1655	1210	828	450	414	250	225	207	113	103	56			
						Ø [µm]	13	13	14	16	16	22	16	16	23	23	32			
StarRov®	LFT / D-LFT / Tapes	490		●	PP						●			●				▲	●	
		485	▲		PP				▲				▲						▲	●
		853	▲	●	PPS/PPA/PBT								▲	●						
		895	▲	●	PA						●		▲	●						
	Organo Sheets / TP-RTM	490		●	PP						●			●		●			▲	●
		895	▲	●	PA						●		▲	●						
		853	▲	●	PPS/PPA/PBT								▲	●						
		886		●	AP Nylon						●			●						
	Pultrusion	090	▲	●	UP/VE/Epoxy/PU					▲	●	▲	▲	●	▲	●	▲	●		
		086		●	UP/VE/Epoxy		●	●	●		●				●		●			
		507	▲		Phenolic										▲					
		886		●	AP Nylon						●				●					
	Weaving / NCF / MAX	086		●	UP/VE/Epoxy		●	●	●		●				●		●			
		090	▲	●	UP/VE/Epoxy					▲	●	▲	▲	●	▲	●	▲	●		
	Filament Winding	086		●	UP/VE/Epoxy		●	●	●		●				●		●			
		090	▲	●	UP/VE/Epoxy/PU					▲	●	▲	▲	●	▲	●	▲	●		

Assembled Roving

MultiStar® multi end rovings are manufactured by assembling continuous glass fibers bundles into a roving with defined tex. Suitable to be chopped and distributed to reinforce unsaturated polyester, epoxy, vinylester, PP, PU and other thermoplastic resins.



PRODUCT CHARACTERISTICS			REGION	RESIN / POLYMER TYPE					TEX [g/km]			SMC CLASSIFICATION				STRAND TEX [g/km]						FOOD CONTACT EU (> 2016)*				
TRADENAME	PROCESS	SIZING	EU	UP	VE	Epoxy	PU	PP	2400	4800	5760	LOW PROFILE	GENERAL PURPOSE	WHITE SMC	CLASS A	35	45	50	60	70	80		90			
MultiStar®	SMC	264	•	•	•				•	•			•				•					•	•	•		
		266	•	•	•				•	•			•	•	•									•	•	•
		272	•	•	•					•	•			•	•					•				•	•	
	Pipes & Tanks Weaving Thermosets	586	•	•	•	•				•								•		•						
		587	•	•	•	•				•									•							
	Panel	566	•	•						•								•								
		586	•	•	•	•				•										•						
	Headliner / LFI (PU)	264	•					•		•									•							•
		576	•					•			•	•													•	
	GMT	473	•						•	•														•		
Spray-Up	819	•	•	•					•															•		
DuraChop®	Gypsum	230	•						•															•		



"We engineer our fiberglass to meet and exceed the properties our customers want for their demanding processes and end-uses. Our researchers and developers are going the #JMextraMile on two continents to create the fiberglass solutions needed today - and tomorrow."



DISCLAIMER

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of this product represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the Regional Sales Office nearest you for the most current information. All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on Johns Manville products, please visit <https://www.jm.com/en/login/policies-terms-and-conditions/> or call (800)654-3103.

¹ Only fibers manufactured in the EU (Slovakia) are compliant with regulation 10/2011 (plastics regulation) and 2023/2006 (GMP regulation).