

Our product recommendations for

FIBERS

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







Chopped Strands for Thermoplastics Compounding

ThermoFlow® and StarStran® chopped strands are designed for a wide range of applications and processes, including thermoplastic reinforcement.



| TRADENAME | | FILAMENT [μm] / REGION | FILAMENT DIAMETER | | POLYMER TYPE | | | | | | | | | | | | | | | EU (> 2016)¹ | |
|--------------|--------|------------------------------|-------------------|-----------|--------------|----------|----------|-------------|------------------|----------|-----------|----------|----------------------------|----------|----------|----------|--------|-----------|----------|--------------|--------------|
| | SIZING | | | POLYAMIDE | | | | POLYOLEFINS | | | POLYESTER | | OTHERS SEMI-CRYSTALLINE | | | AMOR | PHOUS | | | | |
| | | NA 🛦 | EU ● | PA6 | PA66 - HR | PPA | Others | PP | PP- Detergent | PE | PBT | PET | PPS/high heat | PVA | РОМ | TPU | PC/ABS | Styrenics | PVC | FDA - NA | FOOD CONTACT |
| | 672 | | 10, 13 | • | | | | | | | | | | | | | | | | | |
| | 674 | | 10, 13 | • | | • | • | | | | | | • | | | | | | | | • |
| | 675 | 10 | 10 | ▲• | ▲• | ▲ • | ▲• | | | | | | | ▲ • | | | | | | A | • |
| | 701LS | 10 | | | A | A | A | | | | | | | | | A | | | | A | |
| | 770 | 10 | 10 | | | ▲ • | ▲• | | | | | | ▲• | | | | | | | A | • |
| ThermoFlow® | 636 | 13 | 10, 13 | | | | | ▲ • | ▲• | ▲• | | | | | | | | | ▲• | A | • |
| | 641 | 10, 14 | | | | | | A | A | A | | | | | | | | | | A | • |
| | 738 | 10, 14 | | | | | | A | | A | | | | | | | | | | A | |
| | 601 | 10, 13 | 10, 13 | | | | | | | | • | • | | | | | ▲• | ▲• | | A | • |
| | 720 | | 13 | | | | | | | | | | | | | | • | • | | | |
| | 753 | 11 | | | | | | | | | | | | | A | | | | | A | |
| StarStran® | 739 | 16 | | | | | | A | | | | | | | | | | | | A | |
| otal oti ali | 719 | 14 | | A | | | | | | | | A | | A | | A | | | A | | |







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 DIA REGION | AMETER [µm] / | FIBER LENGTH / REGION | RESIN / | POLYMER | CERTIFICATES NA | CERTIFICATES EU | FOOD CONTACT (> 2016)¹ | | | | |
|-------------------------|--------------------|--------|------------------------|---------------|-----------------------------|------------|------------|-----------------|-----------------|---------------------------|------------------------|----|--------|----------------|
| TRADENAME | PROCESS | SIZING | NA ▲ EU • | | NA | EU [mm] | PP | UP | PHENOLICS | MAT BINDERS | ERS GYPSUM SLURRIES | | CERTII | FOOD (> 201 |
| | Carding/Needling | 991 | 16 | 13 | 51, 102 mm | 51 | A • | | | | | | | |
| | | 264 | | 14 | | 6, 12 | | • | | | | | | • |
| | | 582 | | 13.5 | | 6, 12 | | • | | | | | | |
| StarStran® | ВМС | 706C | 16 | | 1/8", 1/4", 1/2" | | | A | | | | | | |
| | | 860 | | 15 | | 6 | | • | | | | | | |
| | | 862 | | 10.5, 15 | | 4.5, 6, 12 | | • | | | | | | |
| | D-LFT | 739 | 16 | | 1/2" | | A | | | | | | | |
| | GMT | 413 | 16 | | 1/2" | | A | | | | | | | |
| | GIVI I | 423 | 13, 16 | | 1/2" | | A | | | | | | | |
| ThermoFlow® | Extrusion/Kneading | 701 | | 10,13 | | 4 | | | • | | | | | |
| Chon-Pak® | Wet dispersible | 117 | 11, 13, 16 | | 1/4", 1/2", 3/4", 1" | | | | | A | | | | |
| Chop-Pak® | (nonwoven mat) | 137 | 11, 13, 16 | | 1/4", 1/2", 3/4", 1 1/4" | | | | | A | | | | |
| DuraCore® | Gypsum | 300 | 13, 16 | 16 | 1/4", 1/2" | 12 | | | | | A • | UL | UL | |
| DuraCore | Сурзин | 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 | | | TEX [g/km] | 300 | 410 | 600 | 1100 | 1200 | 2000 | 2200 | 2400 | 4400 | 4800 | 9600 | | r EU | |
|-------------------------|------------------------------|--------|----------|-------------------------|----------------|--------|------|-----|------|----------|------|----------|----------|------|----------|------|-----|------------------------------|--------------|
| | | | | RESIN / POLYMER TYPE | YIELD [yds/lb] | 1655 | 1210 | 828 | 450 | 414 | 250 | 225 | 207 | 113 | 103 | 56 | ٨ | FOOD CONTACT EU (> 2016)¹ | |
| TRADENAME | PROCESS | SIZING | NA 🛦 | EU • | | Ø [µm] | 13 | 13 | 14 | 16 | 16 | 22 | 16 | 16 | 23 | 23 | 32 | FDA - NA | FOOD (> 2016 |
| | | 490 | | • | PP | | | | | | • | | | • | | • | | A | • |
| | LFT / | 485 | | | PP | | | | | A | | | A | | | | | | |
| | D-LFT / Tapes | 853 | A | • | PPS/PPA/PBT | | | | | | | | A | • | | | | | |
| | | 895 | | • | PA | | | | | | • | | | • | | | | | |
| | | 490 | | • | PP | | | | | | • | | | • | | • | | A | • |
| | Organo Sheets / TP-RTM | 895 | A | • | PA | | | | | | • | | A | • | | | | | |
| | | 853 | A | • | PPS/PPA/PBT | | | | | | | | A | • | | | | | |
| StarRov [®] | | 886 | | • | AP Nylon | | | | | | • | | | • | | | | | |
| Starkov | | 090 | A | • | UP/VE/Epoxy/PU | | | | | A | • | A | A | • | A | • | ▲ • | | |
| | Pultrusion | 086 | | • | UP/VE/Epoxy | | • | • | • | | • | | | • | | • | | | |
| | Tultiusion | 507 | | | Phenolic | | | | | | | | | | A | | | | |
| | | 886 | | • | AP Nylon | | | | | | • | | | • | | | | | |
| | Weaving / | 086 | | • | UP/VE/Epoxy | | • | • | • | | • | | | • | | • | | | |
| | NCF/MAX | 090 | | • | UP/VE/Epoxy | | | | | A | • | A | | • | A | • | ▲• | | |
| | Filament | 086 | | • | UP/VE/Epoxy | | • | • | • | | • | | | • | | • | | | |
| | Winding | 090 | | • | UP/VE/Epoxy/PU | | | | | | • | | | • | | • | ▲ • | | |





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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] | | | | | | |
|--------------------------------|--|--------|----|----------------------|----|-------|----|----|--------|------|------|--------------------|--------------------|--------------|---------|----|-------------------|----|----|----|----|----|---------------------------|
| TRADENAME | PROCESS | SIZING | EU | UP | VE | Ероху | PU | PP | 2400 | 4800 | 5760 | LOW PROFILE | GENERAL PURPOSE | WHITE SMC | CLASS A | 35 | 45 | 50 | 60 | 70 | 80 | 90 | FOOD CONTACT EU (> 2016)¹ |
| | | 264 | • | • | • | | | | • | • | | | • | | | | • | | | | • | • | • |
| | SMC | 266 | • | • | • | | | | • | • | | • | • | • | | | | | | | • | • | • |
| | | 272 | • | • | • | | | | • | • | | • | • | | • | | | | • | | • | • | |
| | Pipes & Tanks Weaving Thermosets | 586 | • | • | • | • | | | • | | | | | | | • | | • | | | | | |
| | | 587 | • | • | • | • | | | • | | | | | | | • | | | | | | | |
| MultiStar® | | 566 | • | • | | | | | • | | | | | | | • | | | | | | | |
| | Panel | 586 | • | • | • | • | | | • | | | | | | | | | • | | | | | |
| | Headliner / LFI | 264 | • | | | | • | | • | | | | | | | | • | | | | | | • |
| | (PU) | 576 | • | | | | • | | | • | • | | | | | | | | | | • | | |
| | GMT | 473 | • | | | | | • | • | | | | | | | | | | | • | | | |
| | Spray-Up | 819 | • | • | • | | | | • | | | | | | | | | | • | | | | |
| DuraChop® | Gypsum | 230 | • | | | | | | • | | | | | | | | | | • | | | | |









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 or for information on Johns Manville products, please visit https://www.im.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).



