



AGY S2 Glass® fiber Rovings

Glass fiber innovations that give you the edge.

AGY is a leading innovator and producer of specialty glass fibers enabling high-performance composite solutions critical to aviation, defense, architecture, and telecommunications. Flexible production operations and cutting-edge R&D allow AGY to customize solutions and develop next-generation products for your most pressing challenges.

AGY S2 Glass assembled rovings

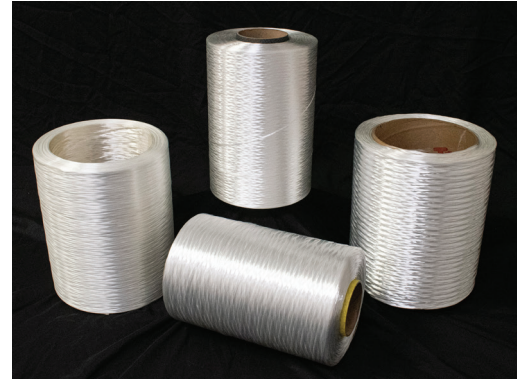
An industry workhorse for generations, S2 Glass rovings offer all the strength and durability advantages of S2 Glass with relatively heavy overall fiber tows all on a 3" core. With years of proven performance in myriad applications, assembled rovings are available in a wide variety of resin-compatible binder systems, including the traditional 9-micron format and a new 13-micron industrial version.

Zentron heavyweight single-end rovings

AGY's scope of heavyweight single-end rovings includes a variety of filament diameters from 9 through to 24 microns, covering a wide range of yields. These rovings are available in both an inside and outside draw configuration, making them adaptable to virtually all converting applications.

Lightweight single-end rovings

Formatted on 3" cores to easily fit in existing composite production processes, the new single-end lightweight S2 Glass rovings complete the overall roving portfolio by filling out the lighter tex range of products. Although these rovings can be used in multiple manufacturing formats, they are ideally suited for use in unidirectional prepreg and non-crimp fabrics manufacturing. These products are available in both 9- and 13-micron variations, depending on the specific needs of the application.



Features	Benefits
30% higher strength and 15% higher tensile modulus vs E Glass at the same fiber volume fraction	Consistent high performance for reliable and durable finished parts
Better fiber toughness, modulus of resilience, and impact deformation than conventional glass fiber	Improved impact capabilities to finished parts and higher composites durability and damage tolerance
Softening point: 1056°C (1932°F) Annealing point: 816°C (1500°F) Strain point: 766°C (1410°F)	Greater fiber tensile strength and stability at elevated temperatures in thermoset and thermoplastic applications
Enhanced stiffness	25% more linear-elastic stiffness than conventional glass fiber
Excellent tolerance to damage accumulation	Ability of composite parts to withstand high levels of tension and flexural fatigue without catastrophic failure
20% reduction in dielectric constant over E Glass fibers	Radar transparency
Long shelf life, good machinability, and excellent durability	Consistent performance and reliability

Product information

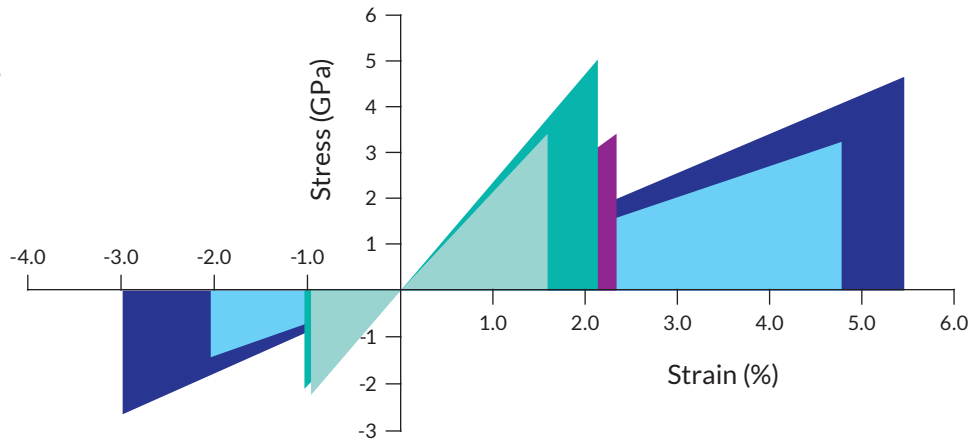
	Nominal yield		End count	Filament diameter	Draw	Nominal package weight		Binder	Resin compatibility
	(yd/lb)	(TEX)		(Microns)		(lb)	(kg)		
Multi-end roving	2500	200	3	9	Outside	16	7.3	365	Polyester, Vinyl Ester, Epoxy
	1250	400	6					449	Epoxy (Amine), Urethane
	750	660	10					463	Epoxy (Anhydride), Phenolic
	250	2000	20					933	Polyamides, BMI, PEEK, PEI, PPS, PES, PEK, PAI, Epoxies and LCP

Zentron—Single-end roving	207	2400	1	16	Inside	16	7.3	VE1	Vinyl Ester, Polyester
	250	2059		24	Inside	26	11.8	721B	Epoxy/Polyester, fast wetting
	413	1200		18	Outside	16	7.3	VE1	Vinyl Ester, Polyester
	675	735		14	Inside/Outside			561	High-temperature thermoplastics
								758	Epoxy/Polyester, fast wetting
	1400	360		9	Inside/Outside			561	High-temperature thermoplastics
758			Epoxy/Polyester, fast wetting						

Lightweight single-end roving	3700	134	1	9	Outside	11	5	758	Epoxy/Polyester, fast wetting
								561	High-temperature thermoplastics
	1850	270		13	Outside			758	Epoxy/Polyester, fast wetting
								561	High-temperature thermoplastics

Stress strain curves

- T700 Carbon Fiber
- AS4 Carbon Fiber
- Aramid
- E Glass
- S2 Glass



S2 Glass is a registered trademark of AGY.

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