

R-430 – S-1 HM® Glass Roving

S-1 HM® glass rovings are specifically designed to give the highest mechanical properties while meeting the economic needs for the reinforcement market.

General Product Specifications

Product Information

Product	813-DL-827	813-DM-413	813-DM-207
Glass Type	S-1 HM	S-1 HM	S-1 HM
Binder	813	813	813
Compatibility*	Epoxy	Epoxy	Epoxy
Filament Diameter - μm	16	17	17
Nominal Yield - yd/lb	827	413	207
Tex - g/1000 m	600	1200	2400
Tex Tolerance +/-	30	60	120
Nominal Solids - %	0.60	0.65	0.55
Solids Tolerance +/-	0.15	0.15	0.15
Maximum Moisture - %	0.10	0.10	0.10
Minimum Tensile - lb (N)	54 (240)	108 (480)	216 (960)

Packaging Information

Package	4044	4044	4044
Nominal Package Weight - lb (kg)	37.5 (17.01)	37.5 (17.01)	37.5 (17.01)
Minimum Package Weight - lb (kg)	30.9 (14.02)	30.9 (14.02)	30.9 (14.02)

Rev 3, 10.27.2020

* Compatibility is resin specific, please contact your AGY representative for more details.

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General Product Specifications

Product Information

Product	383-DL-827	383-DM-413	383-DM-207
Glass Type	S-1 HM	S-1 HM	S-1 HM
Binder	383	383	383
Compatibility*	Polyester	Polyester	Polyester
Filament Diameter - μm	16	17	17
Nominal Yield - yd/lb	827	413	207
Tex - g/1000 m	600	1200	2400
Tex Tolerance +/-	30	60	120
Nominal Solids - %	0.55	0.55	0.55
Solids Tolerance +/-	0.15	0.15	0.15
Maximum Moisture - %	0.10	0.10	0.10
Minimum Tensile - lb (N)	54 (240)	108 (480)	216 (960)

Packaging Information

Package	4044	4044	4044
Nominal Package Weight - lb (kg)	37.5 (17.01)	37.5 (17.01)	37.5 (17.01)
Minimum Package Weight - lb (kg)	30.9 (14.02)	30.9 (14.02)	30.9 (14.02)

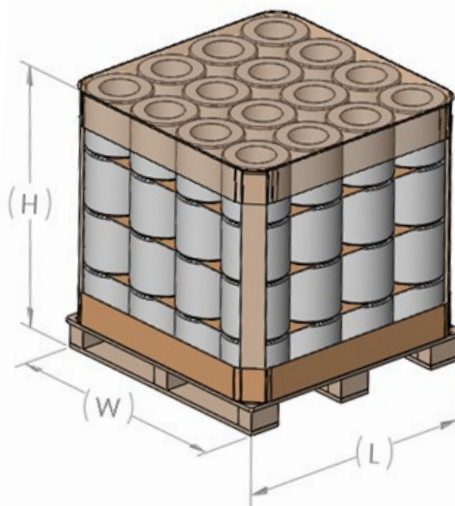
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Nominal Packaging Dimensions

Product	Package	Packages / Layer	Layers / Carton	Cartons / Pallet	Packages / Pallet	L -in (cm)	W-in (cm)	H-in (cm)
S-1 HM [®] Glass Roving	4044	16	3	1	48	45.0 (114.3)	45.0 (114.3)	38.0 (96.5)
	4044	16	4	1	64	45.0 (114.3)	45.0 (114.3)	48.0 (121.9)



NOTE: Shipments will be a mixture of 4 and 3 layer pallets to maximize container loading

Storage, Shelf Life and Handling

Storage and Shelf Life:

AGY recommends storing the materials in accordance with appropriate safety considerations, away from exposure to the elements and at 65-80F (18-27C) and 50-70% humidity. If the materials are stored under these conditions, they are stable, non reactive and will not degrade or exhibit negative characteristics for at least 3 years from the date of manufacture. Unused, unopened product older than this is likely still in good condition, however careful evaluation is recommended. Prior to use, pallets should be placed in the production area and any plastic wrap removed for a minimum of 24 hours to allow the material to acclimate to the processing environment. Special care should be given to pallets being moved from a cold environment into a warm, humid area as condensation may occur and this additional moisture can negatively impact the runability of the material, however, once the material has acclimated, this will no longer be an issue.

For product traceability reasons, the pallet label should be recorded or retained.

Handling:

Fiberglass products process best if temperature and humidity are controlled, primarily because this will help to minimize the buildup of static electricity, fuzz and fly. AGY recommends that the material be run at 70 +/- 5 degrees F (18-27C) and 60 +/- 5% RH.

Test Methods and Certificates

A copy of test methods and or a certificate of conformity may be issued upon request.

Packages will be firmly and evenly wound on the tube, and free from defects in workmanship. AGY accepts no responsibility for damaged material that shows any signs of physical abuse.

For additional product information, refer to PTS M-711

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