

Y-220 – G Filament & Heavier Singles Yarns



G filament yarns are used for further fabrication typically: warping, weaving for glass fabrics and tapes.

General Product Specifications

Product Information

Product	ECG37				ECG75	
	E				E	
Glass Type						
Filament Diameter - micron	9	9	9	9	9	9
Binder	620-1	620-1	679	679	679	679
Bobbin	8542	8571	8542	8571	8542	8571
Plies	1/0	1/0	1/0	1/0	1/0	1/0
Nominal Yield - yd/lb	3,700	3,700	3,650	3,650	7,295	7,295
Tex - g/1000 m	134.1	134.1	136	136	68	68
Tex Tolerance +/-	9.2	9.2	16.3	16.3	8.2	8.2
Nominal Solids %	1.4	1.4	1.0	1.0	1.0	1.0
Solids Tolerance +/-	0.25	0.25	0.3	0.3	0.3	0.3
Nominal Twist TPI (TPM)	0.7Z	0.7Z	0.7Z	0.7Z	0.7Z	0.7Z
	(Z28)	(Z28)	(Z28)	(Z28)	(Z28)	(Z28)
Twist Tolerance +/- TPI (TPM)	0.21	0.21	0.21	0.21	0.21	0.21
	(8)	(8)	(8)	(8)	(8)	(8)
Max. Broken Filaments*	10	10	10	10	10	10
Minimum Tensile - lb (N)	10.0	10.0	18.0	18.0	9.0	9.0
Average of 5 tests	(44.5)	(44.5)	(80)	(80)	(40)	(40)

*Broken filaments based on average 360° check

Nominal Product Characteristics

(For reference only, not specified or controlled)

Average Bare Glass Tensile - lb (N)*	17.4 (77)	17.4 (77)	25 (111)	25 (111)	11.5 (51)	11.5 (51)
Approximate Yarn Diameter - in (mm)	0.0156 (0.396)	0.0156 (0.396)	0.0156 (0.396)	0.0156 (0.396)	0.0106 (0.269)	0.0106 (0.269)

*Reflects average tensile per bobbin

Packaging Information

Bobbin	8542	8571	8542	8571	8542	8571
Package Weight - lb (kg)	8.4 (3.8)	19.0 (8.6)	9.3 (4.2)	16.5 (7.5)	9.3 (4.2)	16.5 (7.5)
Min bobbin Weight - lb (kg)	2.0 (0.91)	5.0 (2.26)	2.0 (0.91)	5.0 (2.26)	2.0 (0.91)	5.0 (2.26)
Metered Bobbin Length - yd (m)	30,000 (27,432)	68,200 (62,362)	33,900 (31,000)	61,040 (56,000)	66,710 (61,000)	119,900 (110,000)
Min Metered Ratio	80%	80%	80%	80%	70%	70%

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General Product Specifications

Product Information

Product	ECG150		
Glass Type	E		
Filament Diameter - micron	9	9	9
Binder	620	636	679
Bobbin	8542	8542	8542
Plies	1/0	1/0	1/0
Nominal Yield - yd/lb	15,000	15,000	14,590
Tex - g/1000 m	33.1	33.1	34
Tex Tolerance +/-	2.1	2.1	4.1
Nominal Solids %	1.3	1.27	1.0
Solids Tolerance +/-	0.25	0.21	0.30
Nominal Twist TPI (TPM)	0.7Z (Z28)	0.7Z (Z28)	0.7Z (Z28)
Twist Tolerance +/- TPI (TPM)	0.21 (8)	0.21 (8)	0.21 (8)
Max. Broken Filaments*	10	10	10
Minimum Tensile - lb (N) <i>Average of 5 tests</i>	3.2 (14.2)	3.2 (14.2)	4.5 (20)

*Broken filaments based on average 360° check

Nominal Product Characteristics

(For reference only, not specified or controlled)

Average Bare Glass Tensile - lb (N)*	4.5 (20)	4.5 (20)	5.0 (22)
Approximate Yarn Diameter - in (mm)	0.008 (0.203)	0.008 (0.203)	0.008 (0.203)

*Reflects average tensile per bobbin

Packaging Information

Bobbin	8542	8542	8542
Package Weight - lb (kg)	9.1 (4.1)	9.1 (4.1)	9.5 (4.3)
Min bobbin Weight - lb (kg)	2.0 (0.91)	2.0 (0.91)	2.0 (0.91)
Metered Bobbin Length - yd (m)	136,500 (124,816)	133,170 (121,770)	139,980 (128,000)
Min Metered Ratio	70%	70%	70%

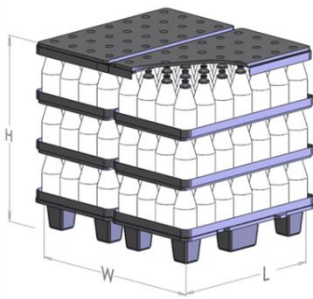
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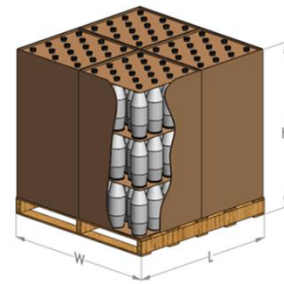
Nominal Packaging Dimensions

PTS Y220

Bobbin	Pallet	Bobbins / Layer	Layers / Carton	Cartons / Pallet	Bobbins / Pallet	L-in (cm)	W-in (cm)	H-in (cm)
8542	Wood	10	3	4	120	45.5 (115.6)	45.5 (115.6)	43 (109.2)
	RPPU	28	3	2	168	52 (132.1)	45.5 (115.6)	46 (116.8)
8571	RPPU	15	2	2	60	51.5 (130.8)	45.5 (115.6)	42 (106.7)



RPPU



WOOD

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 control the buildup of static electricity, fuzz and fly. AGY recommends that the material be run at 70 +/- 5 degrees F 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 bobbin, 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-710

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