

# R-320 – E-Glass Roving



E-Glass rovings are specifically designed and intended for filament wound or prepregmentation applications requiring performance based mechanical, physical, thermal and electrical properties.

## General Product Specifications

### Product Information

Glass Type	E	
Binder	<b>517</b>	
Resin / Polymer Compatibility	Epoxy, PE, PU,	
Filament Diameter - microns	9	
Nominal Yield	750	
Package	4059	
Input Sliver	G75	
Number of Ends	10	
Nominal Yield - yd/lb	725.2	
Tex - g/1000 m	684.0	
Tex Tolerance +/-	20.0	
Lot Tex Specification	684	
Lot Tex Tolerance +/-	5.00	
Nominal Solids %	0.51	
Solids Tolerance +/-	0.21	
Max Catenary - in (cm)	2.4 (6.0)	
Moisture - Maximum (%)	0.05	
Maximum Fuzz (g)	0.035	
Stiffness (mm)	40	
Stiffness Tolerance +/-	20	
Package Hardness (Shore 'O')	70 - 90	
Minimum Impregnated Strand Tensile Strength	Ksi	166.8
	MPa	1150
Minimum Impregnated Strand Tensile Modulus	Msi	10.15
	GPa	70
Maximum Impregnated Strand Tensile Modulus	Msi	11.60
	GPa	80
Minimum Short Beam Shear Strength	Ksi	9.35
	MPa	64.5

### Packaging Information

Package	4059
Nominal Package Weight - lb (kg)	18.1 (8.2)
Nominal Package Length - yards (m)	13123 (12000)

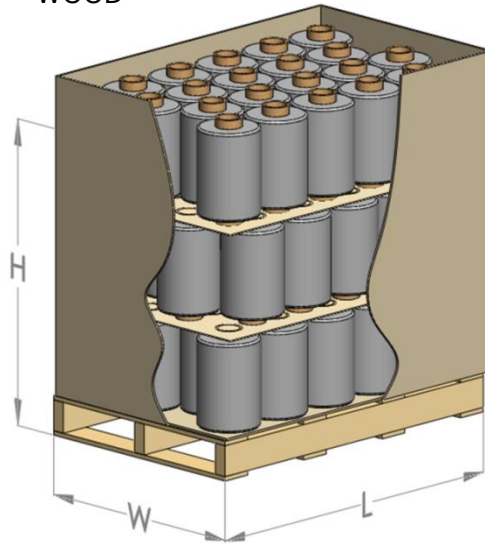
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## Nominal Packaging Dimensions

Package	Pallet	Bobbins / Layer	Layers / Carton	Cartons / Pallet	Bobbins / Pallet	L-in (cm)	W-in (cm)	H-in (cm)
4059	Wood	20	3	1	60	46 (116.8)	32 (81.3)	39 (99.1)

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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