

ThermoFlow® 675

Product description:

ThermoFlow® chopped strands with 675 sizing are produced by chopping E-glass fibers coated with a silane based sizing. Johns Manville technology enables the product to achieve excellent bulk density and flow characteristics, which allows the fiber to be fed into extruder with a very low generation of fuzz compared to standard chopped strand products.

ThermoFlow® 675 chopped strands exhibit very good hydrolysis performance in PA66 with exceptional strand integrity, clean feeding, fiber flowability and uniform fiber distribution. Food contact compliance in USA (FDA). Available globally.

Resin compatibility:

- Hydrolysis resistant
- PA 66 polyamides, PA6
- PPA
- PVA

Designation: Glass type is E-Glass

Benefits:

- Excellent matrix bonding with superior properties in HR-PA66
- Excellent hydrolysis resistance and fatigue
- Improved mechanical properties after aging
- Excellent charpy impact strength in PA66 after 1000h aging (+ 15% vs. standard types)
- Improved tensile strength in PA66 after aging (+10% vs. standard types)
- Excellent strand integrity with effective fiber dispersion
- Improved flow provides reliable and consistent supply to the extruder
- Reduced fine content increases customer productivity
- Improved bulk density increases net package weight



JM Designation	Region	Filament Diameter (µm) ISO 1888	Sizing Designation	Chopped Strands Length (mm)
ThermoFlow® 675 10 4 mm	EU/NA	10	675	4

Mechanical Properties:

Based on 10µm fiber diameter		PA6	PA66	PA66 (after hydrolysis aging*)
Tensile according to ISO 527-2	Strength MPa	167.1	193	66
	Modulus GPa	9.2	9.9	4.6
	Elongation %	3.3	3.4	2.6
Charpy according to ISO 179-1/1eU and ISO 179-1/1eA @ 23°C	Unnotched kJ/m ²	83.6	70	40.9
	Notched kJ/m ²	11.5	10.8	7.1
Glass content according to ISO 3451-1	%	30	30	30

Note: the values shown above are typical properties provided only for guidelines purposes within JM product range. Actual values may vary due to processing conditions such as the resin used, compound composition, type and size of the extruder, type and conditions of the injection molding machine.

* 504 hrs hydrolysis test in water glycol at 130°C.

Packaging:

Region	Packaging Type	Pallet dimensions	Net Weight per pallet	Bag per pallet
EU	Bulk Bag	1140 x 1140 mm	1000 kg	1
EU	Octabin	1140 x 1140 x 1200 mm	1000 kg	1
NA	Bulk Bag	45" x 45"	2200 lbs	1

Storage:

These products should be stored in original packaging in dry, roofed, dust free storehouses. The recommended temperature is between 10°C to 30°C (50°F to 86°F). The products should remain in the original packaging and be conditioned in the work area for a minimum of 24 hours prior to use. The pallets should be single stacked unless otherwise specified on the packaging unit.



Europe



North America

Warranty disclaimer :

Values:

All data represent typical average values.

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, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on Johns Manville products, please visit <https://www.jm.com/en/login/policies-terms-and-conditions/> or call (800)654-3103.



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