Johns Manville

ThermoFlow® 672

CHOPPED STRANDS

Product description:

ThermoFlow® chopped strands with 672 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 the extruder with a very low generation of fuzz compared to standard chopped strand products.
ThermoFlow® chopped strands with 672 sizing exhibits exceptional strand integrity, clean feeding, and uniform fiber distribution when used in glass reinforced PA6 and PA66.
ThermoFlow® 672 provides excellent mechanical properties in glass reinforced PA6 and PA66.

Resin comptability:

- Standard and speciality polyamides

Benefits:

- Excellent matrix bonding provides superior properties in PA6 and PA66.
- Improved mechanical properties, especially Charpy impact strength in PA6 (notched and unnotched: + 10% vs. STD).
- Good hydrolysis resistance.
- 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.
- Reduced sensitivity to Calcium Stearate.

Designation: Glass type is E-Glass

JM Designation	Region	Filament diameter (µm)	Sizing designation	Chopped strands length (mm)
ThermoFlow® 672 - 10 - 4 mm	EU	10	672	4
ThermoFlow® 672 - 13 - 4 mm	EU	13	672	4

Mechanical Properties:

Based on 13µm fiber diameter			PA6	PA66	PA66 (after hydrolysis aging*)
Tensile according to ISO 527-2	Strength	MPa	177	200	61
	Modulus	GPa	9.2	9.8	4.4
	Elongation	%	3.7	3.3	2.6
Charpy according to ISO 179/1eU and ISO 179/1eA @ 23°C	Unnotched	kJ/m²	92	68	38
	Notched	kJ/m²	12.7	11.1	-
Glass content according to ISO 3451-1		%	30	30	30

* 500 hrs hydrolysis test in water glycol at 130°C

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.

Packaging:

Region	Packaging Type	Pallet dimensions (mm)	Net Weight per pallet (Kg)	Bag per pallet
EU	Bulk Bag	1140 x 1140	1000	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) at relative air humidity between 50% to 75%. 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

Values:

All data represent typical average values.

Warranty disclaimer :

The physical (or chemical) properties of Johns Manville products represent typical average values obtained in accordance with accepted test methods at the time of manufacture and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check the Johns Manville office to assure current information. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy or other product information, contact your local Sales Representative.

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