

# ThermoFlow® 720

## Product description:

ThermoFlow® chopped strands with 720 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 720 sizing have been specifically designed as a highly effective reinforcement for styrene thermoplastics such as SMA and yield excellent performance in PC/ABS applications.

## Resin compatibility:

- Styrenics, SMA and PC/ABS

## Benefits:

- Excellent strand integrity with effective fiber dispersion leads to optimal fiber distribution.
- Improved flow provides reliable supply to the extruder resulting in more consistent properties.
- Reduced fines content increases customer productivity due to less cleaning maintenance.
- Improved bulk density increases net package weight translating to less storage and handling costs.



**Designation:** Glass type is E-Glass

JM Designation	Region	Filament diameter (µm)	Sizing designation	Chopped strands length (mm)
ThermoFlow® 720 13 4 mm	EU	13	720	4.7

## Mechanical Properties:

Based on 13µm fiber diameter			SMA	PC/ABS
<b>Tensile</b> according to ISO 527-2	<b>Strength</b>	<b>MPa</b>	<b>74</b>	<b>82</b>
	<b>Modulus</b>	<b>GPa</b>	<b>5.2</b>	<b>5.2</b>
	<b>Elongation</b>	<b>%</b>	<b>2.6</b>	<b>2.9</b>
<b>Charpy</b> according to ISO 179/1eU and ISO 179/1eA @ 23°C	<b>Unnotched</b>	<b>kJ/m<sup>2</sup></b>	<b>29</b>	<b>40</b>
	<b>Notched</b>	<b>kJ/m<sup>2</sup></b>	<b>9.3</b>	<b>9.8</b>
<b>Glass content</b> according to ISO 3451-1		<b>%</b>	<b>15</b>	<b>13</b>

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	Net weight per pallet	Bag per pallet
EU	Bulk Bag	1140 x 1140 mm	1000 kg	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.



## Values:

All data represent typical average values.

## Warranty disclaimer:

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 [www.jm.com/en/login/policies-terms-and-conditions](http://www.jm.com/en/login/policies-terms-and-conditions) or call (800)654-3103.



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