

ThermoFlow[®] 738

Product description:

ThermoFlow[®] chopped strands with 738 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[®] chopped strands with 738 sizing exhibit very good strand integrity, clean feeding, and uniform fiber distribution when used in glass reinforced polypropylene.

Benefits:

- Excellent matrix bonding in PP.
- Outstanding strand integrity.
- Effective fiber dispersion.
- Optimal fiber distribution.
- Improved flow yields.
- More consistent properties.

Resin compatibility:

- Polypropylene (PP)
- Polyolefins



Designation: Glass type is E-Glass

JM Designation	Region	Filament Diameter (µm) ISO 1888	Sizing Designation	Chopped Strands Length (inch / mm)
ThermoFlow [®] EC 10 738 3/16"	NA	10	738	3/16"
ThermoFlow [®] EC 13 738 3/16"		13		3/16"
ThermoFlow [®] EC 14 738 4 mm		14		4 mm

Mechanical Properties:

Based on PP formulation with 1.2% coupling agent			ThermoFlow® EC14 738	ThermoFlow® EC10 738
Tensile according to ASTM D638 - Type I	Strength	MPa	60.0	64.4
	Modulus	GPa	2.4	2.5
	Elongation	%	4.7	4.9
Izod according to ASTM D256	Unnotched	kJ/m ²	59.4	64.7
	Notched	kJ/m ²	13.9	12.4
Glass content		%	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.

Packaging:

Region	Packaging Type	Pallet dimensions (inch)	Net Weight per pallet (Lbs)	Bag per pallet
NA	Bulk Bag	45" x 45"	2200	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.

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 or call (800)654-3103.

Values:

All data represent typical average values.

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