

**Product:** Genfil® TP BC  
**Gendon Code:** 2285



**Revision Date:** Nov 13, 2019

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Genfil® TP BC is a zero halogen flame retardant cable bedding compound that was designed as a moisture proof barrier and filler for use in Low Smoke Halogen Free (LZHF) constructions.

**Key Features:**

- Highly Flame Retardant
- Excellent processing
- RoHS & REACH compliant
- Uses no Heavy Metals or Halogenated ingredients

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**Physical Properties:**

Density: 1.66 g/cm<sup>3</sup>  
Durometer: 55 Shore A

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**Combustion Properties:**

Limited Oxygen Index (LOI): 32%  
Acid Gas: 0.2%

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**Suggested Running Conditions:**

Extruder L/D:	20:1 or 24:1	Comp. Ratio:	1.25:1	Screen Pack:	20 mesh or none
Screw Type:	Single Flight metering, without mixing section				
Feed Zone:	190°F	Center Zone:	190-210°F	Head/Die:	220°F
Screw Cooling:	Not Required	Die Cooling:	Not recommended		
Gradient Cooling:	Not applicable	Color Concentrate:	Not applicable		

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**Processing Techniques:**

The Genfil TPBC has been designed to process easily on standard extruders used in the production of wire and cable products. The material has been designed to process similar to elastomeric compounds, attaining maximum output levels at relatively low shear rates. Care should be taken to ensure that screw compression ratio levels are below 1.5:1, and flow restrictions in the crosshead are kept to a minimum. Melt temperatures higher than 275°F (135°C) should be avoided.

For best results, the material should be extruded in tandem with the overall sheath to minimize any cold flow during storage on the reel. If tandem extrusion is not available, care must be taken to minimize the amount of total cable on the reel to minimize flat spots.

The material is supplied as free flowing pellets, packaged in sealed foil lined boxes and does not need to be dried prior to use. It is recommended that the foil liners be resealed after use to prevent outside contamination or water

absorption during storage. If the material has been exposed to a high humidity environment, or the foil liner has not been sealed, it is recommended the material be dried for a minimum of 4 hours at 140°F (60°C) in a standard desiccant style drier prior to use.

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