

Product: GenNex® EU Ins
Gendon Code: 2630 (Natural)
3501 (Green)



Revision Date: Dec 5, 2019

GenNex® EU Ins compound 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. The material is supplied as free flowing pellets, packaged in sealed foil lined boxes and does not need to be dried prior to use.

Key Features:

- Ease of Processing
- Excellent Physical Properties
- Colourable
- Halogen Free
- Excellent Flame Performance

Physical Properties:

Density:	1.54 g/cm ³
Tensile:	1650 psi (typical)
Elongation:	170% (typical)
Durometer (Shore A):	93
Low Temp. Brittle Point:	-30°C

Combustion Properties:

Limited Oxygen Index (LOI):	42%
Smoke Generation (ASTM E662):	
Non-Flaming – Dm20	239
Flaming – Dm20	86

Heat Aging:

	<u>7d@121°C</u>
Tensile Retention	100%
Elongation Retention	85%

Fluid Resistance:

	<u>IRM902 – 4h@100°C</u>	<u>IRM902 – 18h@121°C</u>
Tensile Retention	56%	51%
Elongation Retention	135%	106%

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:	300°F	Center Zone:	325-340°F	Head/Die:	350°F
Screw Cooling:	165°F (recommended)	Die Cooling:	Not recommended		
Gradient Cooling:	Recommended	Colour :	UL approved MB		
		Concentrate	recommended		

Processing Techniques:

GenNex® EU Ins compound 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 400°F should be avoided.

The material can be extruded using either pressure or sleeving techniques. For maximum physical properties, sleeving is recommended, with a target draw down ratio of 1.25 to 1.

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.
