Product: **Genflam® OH-4 BK NEW**
Gendon Code: **P19071 T10**

Revision Date: **Sept 24, 2019**

Genflam® OH-4 BK NEW 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:

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

Physical Properties:

Density:	1.50 g/cm³	
Tensile:	1700 psi (typical)	
Elongation:	170% (typical)	
Tear:	45 lbf/in (typical)	
Durometer:	94 Shore A	
Low Temp. Brittle Point:	-42°C	
Deformation, 200g:	8%@100°C	36%@121°C

Combustion Properties:

Limited Oxygen Index (LOI):	39%
Smoke Generation (E662):	
Non-Flaming - Dm20	TBD
Flaming – Dm20	TBD

Heat Aging:

	7d @ 110°C
Tensile Retention	107%
Elongation Retention	81%

Fluid Resistance:

	IRM 902 – 4h@70°C
Tensile Retention	75%
Elongation Retention	115%

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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:	300°F	Center Zone:	325-340°F	Head/Die:	350°F
Die Cooling:	Not Recommended	Gradient Cooling:	Recommended		

Processing Techniques:

Genflam® OH-4 BK NEW 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 420°F (215°C) should be avoided.

The Material can be extruded using either pressure or sleeving techniques. For maximum physical properties, sleeving is recommended, with a target drawdown of 1.25:1.

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.