

Product: Genflam® NYC TS BK
Gencon Code: 4302 (Black)



Revision Date: Dec 5, 2019

Genflam® NYC TS BK CV cured thermoset flame retardant low smoke zero halogen compound was designed to provide the wire and cable field with a jacketing compound that gives excellent physical properties while processing easily. This compound is designed to be used for the NYC TS LS transit jacket application.

Key Features:

- High flame retardancy
- Excellent processing
- Uses no heavy metals or halogenated ingredients

Physical Properties:

Density:	1.50 g/cm ³
Tensile:	1700 psi (typical)
Elongation:	160% (typical)
Tear:	40 lbf/in (typical)
Durometer:	85 Shore A
Low Temp. Flexibility:	-30°C Bend Pass
Mechanical Water Absorption:	12.3 mg/in ² @ 70 °C

Combustion Properties:

Limited Oxygen Index (LOI):	36%
Acid Gas:	0.3%
Toxicity Index:	1.98
Smoke Index:	2.7
Smoke Generation (ASTM E662):	D _{s4} D _{m20}
• Flaming	2 126
• Non-Flaming	19 292

Heat Aging:

	<u>7d @ 136°C</u>
Tensile Retention	125%
Elongation Retention	75%

Fluid Resistance:

	<u>IRM 902 18h@121°C</u>	<u>Diesel 24h@49°C</u>	<u>15% Salt 24h@23°C</u>	<u>Lubricating Oil 24h@99°C</u>
Tens. Ret.	75%	60%	95%	100%
Elong. Ret.	110%	100%	95%	105%
	<u>Hydraulic 24h@49°C</u>	<u>Methanol 24h@20°C</u>	<u>Gasoline 24h@49°C</u>	
Tens. Ret.	65%	90%	85%	
Elong. Ret.	100%	80%	95%	

Suggested Running Conditions:

Extruder L/D:	15:1 or 20:1	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	210-230°F	Head/Die:	250°F
Conductor Pre-Heat:	150°F (recommended)				

Processing Techniques:

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