

Product: Genflam® XLPO-2
Gendon Code: 2286 (Black) 2275 (White)
2580 (Red) 4304 (Grey)
Revision Date: Sept 24, 2019



Genflam® XLPO-2 fast Peroxide Curing Thermoset Flame Retardant Low Smoke Zero Halogen Compound was designed to provide the wire and cable field with a flame resistant jacketing compound that gives excellent physical properties while processing easily. This polyolefin product passes IEEE 1580 and UL 1309 shipboard cable requirements and has passed UL 1202 on various cable constructions.

Key Features:

- High flame retardancy
- Good processibility
- Uses no heavy metals or halogenated ingredients

Physical Properties:

| | | | |
|-------------|------------------------|--------------------------|------------|
| Density: | 1.48 g/cm ³ | Durometer: | 93 Shore A |
| Tensile: | 1700 psi (typical) | Low Temp. Brittle Point: | -40°C |
| Elongation: | 230% (typical) | Deformation, 2000g: | 0.5%@121°C |
| Tear: | 40 lbf/in (typical) | | |

Combustion Properties:

| | |
|-----------------------------|------|
| Limited Oxygen Index (LOI): | 40% |
| Acid Gas: | 0.2% |

Heat Aging:

| | |
|----------------------|-----------------|
| | <u>7d@136°C</u> |
| Tensile Retention | 134% |
| Elongation Retention | 66% |
| Hot Creep @ 200°C | 6.67% |
| Hot Set @ 200°C | 0% |

Fluid Resistance:

| | | | |
|----------------------|-----------------------------|-----------------------------|-------------------------|
| | <u>IRM 902 - 18h@ 121°C</u> | <u>Diesel - 24h @ 100°C</u> | <u>IPA - 24h @ 23°C</u> |
| Tensile Retention | 99% | 63% | 90% |
| Elongation Retention | 89% | 70% | 128% |

Weathering:

| | |
|----------------------|------------------------------------|
| | <u>720 Hours under QUV Testing</u> |
| Tensile Retention | 105% |
| Elongation Retention | 91% |

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: | 190-200°F | Head/Die: | 220°F |
| Conductor Pre-heat: | 150°F (recommended) | | | | |

Processing Techniques: Gendon's XLPO-2 Zero Halogen compound is designed to process easily.