



Petrothene®

# YR19513

**Polyolefin Compound**  
**Wire and Cable Grade**  
**Density 1.40**

## Applications

PETROTHENE YR19513 is a colorable, thermoplastic, non-halogenated, flame retardant polyolefin compound designed for use as striping for chemically crosslinkable automotive primary and appliance wire applications.

## Processing Techniques

YR19513, like other thermoplastic polyolefin compounds, can be extruded by a conventional extruder. YR19513 crosslinks when peroxide vapors pass into the thin striping made from this product from the main body of crosslinked insulation. Additionally, since the striping is on the outside surface of the insulation, it is exposed to the high temperature steam in the crosslinking process for the maximum amount of time.

## Suggested General Extrusion Conditions

Extruder Zone	Temperature Range	Extruder Zone	Temperature Range
Feed	225°- 235°F (107°- 113°C)	Adapter	250°- 270°F (121°- 132°C)
Zone 2	240°- 260°F (116°- 127°C)	Die	250°- 270°F (121°- 132°C)
Zone 3	250°- 270°F (121°- 132°C)	Melt Temperature	250°- 270°F (121°- 132°C)
Zone 4-X	250°- 270°F (121°- 132°C)		

## Additional Suggestions

- Maximum screen pack of 40 mesh
- Little or no die land.
- No predrying normally required
- Compression ratio of 2:1 or 3:1
- "Mixing" screws can be used if properly designed to prevent excessive heat build-up

## Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Density	1.40	g/cc	D 1505
Tensile Strength, Original	800	psi	D 638
Elongation, Original	500	%	D 638

The above properties are based on a thermoplastic compression molded plaque. Properties are nominal values only and are subject to normal variations consistent with the test methods and/or variations found acceptable to the industry.

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