

Preliminary Data Sheet

Petrothene

YR19600B

Non-Halogenated Flame Retardant Polyolefin Compound

Wire and Cable Grade

Density 1.42



Description Petrothene YR19600B is a colorable, non-halogenated, flame retardant compound crosslinkable via electron beam radiation.

Applications Petrothene YR19600B is selected by customers for use in ISO 125°C thin wall automotive wire & cable applications.

Typical Properties	Property	Nominal Value	Units	ASTM Method
	Density	1.42	g/cc	D 1505

The data obtained for physical properties are nominal values only and subject to normal variations consistent with the test methods and/or variations found acceptable to the industry.

Material Handling Pre-drying is typically not required. For additional handling information see the material MSDS.

Processing Techniques Petrothene YR19600B, like other thermoplastic polyolefin compounds, can be extruded as wire and cable insulation by a conventional extruder. Below are suggested extrusion and curing conditions for YR19600B. These conditions are intended as general guidelines only and are not optimum values, since manufacturing variables such as extruder type and size, radiation unit design and cable construction all have an effect on the processing of cross-linkable compounds. Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

Suggested General Extrusion Conditions	Extruder Zone	Temperature Range	Extruder Zone	Temperature Range
	Feed	265° - 275°F (129° - 135°C)	Adapter	295° - 305°F (146° - 152°C)
Zone 2	265° - 275°F (129° - 135°C)	Die	295° - 305°F (146° - 152°C)	
Zone 3	265° - 275°F (129° - 135°C)	Head	305° - 315°F (152° - 157°C)	
Zone 4-X	275° - 285°F (135° - 141°C)	Melt	340° - 360°F (171° - 182°C)	

Additional Suggestions

- Single angle nominal or slightly undersize die with little or no land.
- Die cooling of 90°-120°F (32°-49°C) to control die drool.
- Suggested e-beam dosage is 7.5 Mrads.