EQUISTAR
A Lyondell Company

Petrothene®

YR92126

Polyolefin Compound
Wire and Cable Grade
Density 1.13

Applications

PETROTHENE YR92126 has been specially formulated for use as shielding and jacketing for medium voltage power cable. When properly extruded, cables produced with YR92126 will meet the requirements of AEIC CS 5-82 and ICEA S-66-524. YR92126 is a thermoplastic polyolefin-based, semiconductive, deformation resistant, black compound. Antioxidant has been added to ensure thermal stability during processing and enhance product performance.

Processing Techniques

YR92126, like other thermoplastic polyolefin compounds, can be extruded on wire or cable by means of a conventional extruder. Below are suggested extrusion conditions for YR92126. These conditions are intended as general guidelines only, and are not optimum values, since manufacturing variables such as extruder type and size have an effect on processing of thermoplastic compounds. For additional information contact your Equistar sales or technical service representative.

Suggested General Extrusion Conditions

Extruder Zone	Temperature Range	Extruder Zone	Temperature Range
Feed	230° - 250°F (110° - 121°C)	Adapter	320° - 340°F (160° - 171°C)
Zone 2	270° - 290°F (132° -143°C)	Die	320° - 340°F (160° - 171°C)
Zone 3	320° - 340°F (160° - 171°C)	Melt Temperature	320° - 340°F (160° - 171°C)
Zone 4-X	320° - 340°F (160° - 171°C)		

Additional Suggestions

- Screen pack of 12 or 14 mesh.
- The compound should be dried prior to extrusion. Suggested temperature range for drying is 140-160°F for 4-6 hours.

Typical Properties

Property*	Nominal Value	Units	ASTM Test Method
Density	1.13	g/cc	D 1505
Low Temperature Brittleness, F_{50}	-25	°C	D 746
Hardness, Shore D	59		D 2240
Heat Distortion, 110°C (121°C)	1.0 (6.0)	%	D 1047
ESCR, 100% Igepal	0 Failures at 7 Days		D 1693
Tensile Strength	1,800 (12.4)	psi (MPa)	D 638
Aged 7 days @ 100°C	100	% retained	
Elongation	235	%	D 638
Aged 7 days @ 100°C	90	% retained	
Volume Resistivity, Original	3	ohm-cm	D 991

* All properties determined from compression molded, press-cured plaques.
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