

Technical Data Sheet

Petrothene YR92126

W&C Polyolefin Compound



Product Description

Petrothene YR92126 is a thermoplastic polyolefin-based, semiconductive, deformation resistant, black compound. YR92126 is selected by customers 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. Antioxidant has been added to ensure thermal stability during processing and enhance product performance.

Regulatory Status

For regulatory compliance information, see *Petrothene* YR92126 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Wire & Cable
Market	Wire & Cable
Processing Method	Wire & Cable

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Density, (23 °C)	1.13	g/cm ³	1.13	g/cm ³	ASTM D1505
Mechanical					
Tensile Strength at Break	1800	psi	12.4	MPa	ASTM D638
Tensile Strength at Break, % Retained Aged 7 days @ 100 °C	100	% Ret	100	% Ret	ASTM D412
Tensile Elongation at Break	220	%	220	%	ASTM D638
Tensile Elongation at Break, % Retained Aged 7 days @ 100 °C	90	% Ret	90	% Ret	ASTM D412
Environmental Stress Crack Resistance, F ₂₀ (100% Igepal®, Cond B)	0 Failures at 7 days		0 Failures at 7 days		ASTM D1693
Hardness					
Shore Hardness, (Shore D)	59		59		ASTM D2240
Thermal					
Low Temperature Brittleness, F ₅₀	-13	°F	-25	°C	ASTM D746
Electrical					
Volume Resistivity	3	ohm*cm	3	ohm*cm	ASTM D257

Notes

Igepal® is a registered trademark of Rhodia.

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Recipient Tracking #:
Request #: 908846

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

General Extrusion Conditions

Petrothene YR92126, like other thermoplastic polyolefin compounds, can be extruded using a conventional extruder. Below are suggested extrusion conditions for *Petrothene* 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.

<u>Extruder Zone</u>	<u>Temperature Range</u>	<u>Extruder Zone</u>	<u>Temperature Range</u>
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 (60 – 71 °C) for 4-6 hours.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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