

Technical Data Sheet

Petrothene XL07425

W&C Polyolefin Compound



Product Description

Petrothene XL07425 is a colorable, non-halogenated, flame retardant compound crosslinkable via continuous vulcanization (C.V.).

Petrothene XL07425 is selected by customers for use in 125 °C automotive wire & cable applications (SAE J1128) and UL 125 °C appliance, SIS wire, and CSA 125 °C appliance and coil lead wire.

Regulatory Status

For regulatory compliance information, see *Petrothene* XL07425 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central 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)	1.40	g/cm ³	1.40	g/cm ³	ASTM D1505
Mechanical					
Tensile Strength at Break, Initial	2500	psi	17.2	MPa	ASTM D412
Tensile Elongation at Break, Initial	240	%	240	%	ASTM D412

Notes

Properties determined from compression-molded, press-cured plaques.

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

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

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 XL07425, like other cross-linkable polyolefin compounds, can be extruded as wire and cable insulation by means of a conventional extruder with a continuous vulcanization tube. Below are suggested extrusion and curing conditions for *Petrothene* XL07425. These conditions are intended as general guidelines only, and are not optimum values, since manufacturing variables such as extruder type and size, continuous vulcanization tube design and cable construction all have an effect on processing cross-linkable compounds.

<u>Extruder Zone</u>	<u>Temperature Range</u>	<u>Extruder Zone</u>	<u>Temperature Range</u>
Feed	212 - 235 °F (100 - 113 °C)	Adapter	212 - 250 °F (100 - 121 °C)
Zone 2	212 - 235 °F (100 - 113 °C)	Head	212 - 250 °F (100 - 121 °C)
Zone 3-X	212 - 235 °F (100 - 113 °C)	Melt Temperature	212 - 250 °F (100 - 121 °C)

Additional Suggestions

- Single angle undersized die with short land.
- Die Cooling of 90 - 120 °F (32 - 49 °C) to control die drool.
- Curing line steam temperature should be at least 400 °F (204 °C).

Material Handling

Pre-drying is typically not required. For additional handling information see the material's safety data sheet (SDS).

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;
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- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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