

## LyondellBasell Petrothene® XL07407 Copolymer

Category : Polymer , Thermoplastic , Polyolefin

### Material Notes:

**Applications**PETROTHENE XL 07407 is especially formulated for use in flame retardant, primary insulation for low voltage automotive wire and cable applications (SAE J1128), and for UL applications including 125Å°C appliance wire and SIS. XL 7407 is a non-tarnishing, non-halogenated, flame retardant, chemically crosslinkable compound. Non-discoloring antioxidant and special active peroxide have been added to ensure thermal stability during processing and optimum curing results.**Processing Techniques**XL 07407, like other crosslinkable 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 conditions for XL 07407. 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 of crosslinkable compounds.**Additional Suggestions**Maximum screen pack of 40 meshLittle or no die landNo predrying normally requiredCompression ratio of 2:1-3:1"Mixing" screw can be used if properly designed to prevent excessive heat build-upDies should be cleaned frequently to reduce compound build-upApproximately 20% oversize dies are recommendedThe die area should be cooled up to 20Å°F by hot water or oil to reduce die build-upConductors should be cleaned or flame treated to remove any trace drawing oils prior to extrusionChemical or taped separators may be necessary to provide peelable adhesion over certain conductor typesCuring line steam temperature should be at least 400Å°F (205Å°C)Residence time in the steam should be at least 25 seconds**Physical Properties**All properties determined from compression molded, press cured plaques. The values listed for physical and electrical properties are nominal values only and are subject to normal variations consistent with the test methods and/or variations found acceptable to the industry.This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-XL07407-Copolymer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-XL07407-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/inÅ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.7 MPa	3000 psi	101% retention after aging 7 days at 165Å°C.; ASTM D638
Elongation at Break	220 %	220 %	98% retention after aging 7 days at 165Å°C.; ASTM D638

Thermal Properties	Metric	English	Comments
Oxygen Index	26 %	26 %	ASTM D2863

Processing Properties	Metric	English	Comments
Feed Temperature	107 - 113 Å°C	225 - 235 Å°F	
Zone 2	107 - 113 Å°C	225 - 235 Å°F	

Zone 3 Processing Properties	116 - 127 Å°C Metric	240 - 260 Å°F English	Zone 3-X Comments
Adapter Temperature	116 - 238 Å°C	240 - 460 Å°F	
Die Temperature	116 - 127 Å°C	240 - 260 Å°F	
Melt Temperature	116 - 127 Å°C	240 - 260 Å°F	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China