

## LyondellBasell Petrothene® YR19548 Polyolefin Compound

Category : Polymer , Thermoplastic , Polyolefin

### Material Notes:

**Applications**PETROTHENE YR 19548 is a colorable, thermoplastic non-halogenated, flame retardant polyolefin compound formulated for small gauge automotive primary insulation (SAE J1128) and appliance wire insulation when crosslinked by radiation. YR 19548 permits high line speeds (3,000 fpm) and extremely fast cure speeds (6,000 fpm).  
**Processing Techniques**YR 19548, like other thermoplastic polyolefin compounds, can be extruded as wire and cable jacketing using a conventional extruder. Crosslinking may be achieved by using electron beam radiation. Below are suggested extrusion and curing conditions for YR 19548. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions, such as extruder type and size, radiation unit design and cable constructions all have an effect on processing of crosslinkable compounds.  
**Additional Suggestions**Maximum screen pack of 40 mesh  
 Little or no die land  
 No predrying normally required  
 Compression ratio 2:1-3:1  
 "Mixing" screw can be used if properly designed to prevent excessive heat build-up  
**Suggested radiation dosage:** 7.5 MRads  
**Physical Properties**All properties determined form #20 AWG/TXL wire irradiated at 7.5 MRads. The data obtained 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. For further information on resins and compounds for wire and cable, contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-YR19548-Polyolefin-Compound.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-YR19548-Polyolefin-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ASTM D1505

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.5 MPa	2400 psi	100% retained after aging 7 days at 165°C.; ASTM D638
Elongation at Break	220 %	220 %	90% of original retained after aging 7 days at 150°C.; ASTM D638

Processing Properties	Metric	English	Comments
Feed Temperature	129 - 135 °C	265 - 275 °F	
Zone 2	129 - 135 °C	265 - 275 °F	
Zone 3	129 - 135 °C	265 - 275 °F	
Zone 4-x	135 - 141 °C	275 - 285 °F	
Adapter Temperature	146 - 152 °C	295 - 305 °F	
Die Temperature	152 - 157 °C	305 - 315 °F	
Melt Temperature	171 - 182 °C	340 - 360 °F	
Head Temperature	146 - 152 °C	295 - 305 °F	

Processing Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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