

LyondellBasell Petrothene[®] XL07425 Copolymer

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

ApplicationsPETROTHENE XL07425 is especially formulated for use in flame retardant primary insulation for low voltage automotive wire and cable applications (SAE J1128). Non-discoloring antioxidant and special active peroxide have been added to ensure thermal stability during processing and optimum curing results.**Processing Techniques**XL07425, 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 and curing conditions for XL07425. These conditions are intended as general guidelines only, and 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 crosslinkable compounds. Contact your Equistar sales representative for more information.**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-upOn-size dies are recommendedCuring line steam temperature should be at least 400[°]F (205[°]C)**Physical Properties**All properties determined from compression molded, press cured plaques. The values listed for physical 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-XL07425-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D1505

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ASTM D2240
Tensile Strength at Break	19.4 MPa	2810 psi	106% retained after aging 7 days at 165 [°] C; ASTM D412
Elongation at Break	250 %	250 %	97% retained after aging 7 days at 165 [°] C; ASTM D412

Thermal Properties	Metric	English	Comments
Oxygen Index	25 %	25 %	ASTM D2863

Processing Properties	Metric	English	Comments
Feed Temperature	107 - 113 [°] C	225 - 235 [°] F	
Zone 2	107 - 113 [°] C	225 - 235 [°] F	
Zone 3	107 - 113 [°] C	225 - 235 [°] F	Zone 3-X
Adapter Temperature	113 - 118 [°] C	235 - 245 [°] F	

Processing Properties	Metric	English	Comments
Melt Temperature	116 - 127 Â°C	240 - 260 Â°F	
Head Temperature	113 - 118 Â°C	235 - 245 Â°F	
Screw Cooling Temperature	82.2 Â°C	180 Â°F	If needed
Die Cooling Temperature	32.2 - 48.9 Â°C	90.0 - 120 Â°F	

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