

Petrothene® XL07414

Polyolefin
LyondellBasell Industries

Message:

PETROTHENE XL 07414 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 125°C appliance wire and SIS. XL 07414 is a non-tarnishing, non-halogenated, flame retardant chemically crosslinkable compound. Small wire gauges, such as 20-24 AWG, insulated with XL 07414 exhibit higher strip forces than wire insulated with XL 07407. Non-discoloring antioxidant and special active peroxide have been added to ensure thermal stability during processing and optimum curing results.

General Information			
Additive	Antioxidation		
	Flame retardancy		
Features	Copolymer		
	Antioxidation		
	Crosslinkable		
	Halogen-free		
	Flame retardancy		
Uses	Low voltage insulation		
	Wire and cable applications		
	Application in Automobile Field		
Wire Types	SIS		
Agency Ratings	SAE J1128		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ASTM D1505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	20.7	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	220	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (165°C, 168 hr)	1.0	%	ASTM D573
Change in Ultimate Elongation in Air (165°C, 168 hr)	-2.0	%	ASTM D573
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	26	%	ASTM D2863

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	107 - 113	°C
Cylinder Zone 2 Temp.	107 - 113	°C
Cylinder Zone 3 Temp.	107 - 113	°C
Adapter Temperature	113 - 118	°C
Melt Temperature	116 - 127	°C

Extrusion instructions

Head Temperature: 235 to 245°F Screw Cooling: 180°F, if needed to control melt temperature Die Cooling: 90 to 120°F to control die drool Maximum screen pack of 40 mesh Little or no die land No predrying normally required Compression Ratio: 2 to 3:1 Curing line steam temperature should be at least 400°F.

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