

Alpha PVC GW 3040 NATURAL LCF

Polyvinyl Chloride

AlphaGary

Message:

A LEAD FREE, 60°C TO 80°C TEMPERATURE RATED, FLAME RETARDED CABLE JACKETING COMPOUND.

General Information			
Features	Low (to no) lead content		
	Flame retardancy		
Uses	Cable sheath		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48 - 1.52	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	93 - 99		ASTM D2240
Shaw A, 15 seconds	89 - 95		ASTM D2240
Shaw D	55 - 61		ASTM D2240
Shaw D, 15 seconds	39 - 45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.381 mm	17.2	MPa	ASTM D412
0.610 mm	15.9	MPa	ASTM D412
1.91 mm	14.5	MPa	ASTM D412
Tensile Elongation			ASTM D412
Fracture, 0.610mm	250	%	ASTM D412
Fracture, 1.91mm	280	%	ASTM D412
Fracture, 0.381mm	230	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹			UL Unspecified
100°C, 168 hr	0.0	%	UL Unspecified
100°C, 240 hr	5.0	%	UL Unspecified
113°C, 168 hr	8.0	%	UL Unspecified
Change in Ultimate Elongation in Air ²			UL Unspecified
100°C, 168 hr	-15	%	UL Unspecified
100°C, 240 hr	-17	%	UL Unspecified

113°C, 168 hr	-38	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-15.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (23°C, 100 MHz)	3.30		ASTM D150
Dissipation Factor (23°C, 100 MHz)	0.026		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	39	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	154	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	166	°C	
Cylinder Zone 4 Temp.	171	°C	
Cylinder Zone 5 Temp.	177	°C	
Adapter Temperature	177	°C	
Melt Temperature	171 - 182	°C	
Die Temperature	177	°C	
Extrusion instructions			
It may be necessary to adjust barrel temp to attain the desired melt temperatureScrew Design: Standard PVC metering screw with a 3:1 compression ratio			
NOTE			
1.	Thickness: 24 mil		
2.	Thickness: 24 mil		

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