

Alpha PVC GW 2052 SPEC NAT LCF

Polyvinyl Chloride

AlphaGary

Message:

A 60°C RATED, LEAD FREE BUFFERING COMPOUND INTENDED FOR OFNP AND OFNR CABLE CONSTRUCTIONS.

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	1.28 - 1.32	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	67 - 73		ASTM D2240
Shaw D, 15 seconds	53 - 59		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.762 mm	22.8	MPa	ASTM D412
1.91 mm	20.7	MPa	ASTM D412
Tensile Elongation			ASTM D412
Fracture, 1.91mm	280	%	ASTM D412
Fracture, 0.762mm	250	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			UL Unspecified
100°C, 168 hr ¹	-10	%	UL Unspecified
100°C, 168 hr ²	-5.0	%	UL Unspecified
Change in Ultimate Elongation in Air			UL Unspecified
100°C, 168 hr ³	-20	%	UL Unspecified
100°C, 168 hr ⁴	-10	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-10.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (23°C, 100 MHz)	2.85		ASTM D150
Dissipation Factor (23°C, 100 MHz)	0.018		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	32	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	166	°C	
Cylinder Zone 2 Temp.	171	°C	
Cylinder Zone 3 Temp.	177	°C	
Cylinder Zone 4 Temp.	182	°C	
Cylinder Zone 5 Temp.	182	°C	
Adapter Temperature	182	°C	
Die Temperature	182	°C	
Extrusion instructions			
Screw Design: PVC metering, cored with water cooling. Screw water exit temperature of 100 degrees F.Note: To optimize physical properties, it is recommended to use hot water at 150 degrees F in the cooling trough; 3 to 1 draw down ratio.			
NOTE			
1.	Thickness: 10 mil		
2.	Thickness: 30 mil		
3.	Thickness: 10 mil		
4.	Thickness: 30 mil		

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