

Macromeric® 0110-108 BK

Chlorinated Polyethylene

Saco Polymers

Message:

Lead-free Thermoplastic CPE compound

Macromeric ® 0110-108 BK is a black, UV resistant, Lead-free, RoHS compliant, Thermoplastic CPE compound. It is designed for use in a wide variety of jacketing applications including wire and cable and tube bundles. This compound has superior fire performance; including slow flame propagation, and self-extinguishing characteristics. Macromeric ® 0101-108 BK should be extruded with a screw configuration designed to optimize process conditions and throughput. This extrusion compound is designed to meet the jacketing requirements of commonly cited cable specifications, including UL 1277 tray cable.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good UV Resistance		
	Low (to None) Lead Content		
	Self Extinguishing		
Uses	Cable Jacketing		
	Wire & Cable Applications		
Agency Ratings	UL 1277		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.37	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec	91		
Shore D, 10 sec	52		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15.9	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus - 1% Secant	345	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength (23°C)	78.8	kN/m	ASTM D470
Aging	Nominal Value	Unit	Test Method

Change in Tensile Strength in Air (121°C, 168 hr)	-5.0	%	ASTM D638
Change in Ultimate Elongation in Air (121°C, 168 hr)	-15	%	ASTM D638
Change in Tensile Strength			ASTM D638
75°C, 1440 hr, in IRM 902 Oil	-20	%	
100°C, 96 hr, in IRM 902 Oil	-25	%	
Change in Ultimate Elongation			ASTM D638
75°C, 1440 hr, in IRM 902 Oil	-25	%	
100°C, 96 hr, in IRM 902 Oil	-25	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ²	-33.0	°C	ASTM D746
Deformation - 2000-gram load			UL 1277
100°C	7.0	%	
121°C	14	%	
Head Temperature	174 to 185	°C	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index ³	44	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	149 to 160	°C	
Cylinder Zone 2 Temp.	160 to 174	°C	
Cylinder Zone 3 Temp.	174 to 185	°C	
Cylinder Zone 4 Temp.	174 to 185	°C	
Melt Temperature	174 to 185	°C	
Die Temperature	174 to 185	°C	
NOTE			
1.	23°C		
2.	3 minutes in methanol		
3.	23°C		

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