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Customized Solutions for Diverse Applications

0110-108 BK

Lead-free Thermoplastic CPE compound

Description

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.

Properties	Conditions	Typical Value	Unit	Test Method
Physical				
Specific Gravity	at 23°C	1.37	g/cm3	ASTM D792
Melt Index	190°C, 21.6 kg	6.0	g/10-min.	ASTM D1238
Tear Strength	at 23°C	450	lbf/in.	ASTM D470
Low Temperature Brittleness	3 minutes in methanol	-33	°C	ASTM D746-07
Mechanical				
Tensile Strength	at break	2300	psi	ASTM D638
	IRM 902 Oil, 4-days at 100°C	75	% Retention	
	IRM 902 Oil, 60-days at 75°C	80		
	Air, 7-days at 121°C	95		
Elongation	at break	300	%	ASTM D638
	IRM 902 Oil, 4-days at 100°C	75	% Retention	
	IRM 902 Oil, 60-days at 75°C	75		
	Air, 7-days at 121°C	85		
Deformation Test	2000-gram load, 121°C	14	% deformation	UL 1277
	2000-gram load, 100°C	7		UL 1277
Flexural Modulus	1% secant	50,000	psi	ASTM D790
Hardness				
Durometer	1-second	91	Shore A	ASTM D2240
	10-second	52	Shore D	ASTM D2240
Flammability				
LOI	23°C	44	%	ASTM D-2863

The technical information contained herein is, to the best of our knowledge, believed to be accurate. However, Saco Polymers makes no guarantee or warranty, and does not assume any liability, with respect to the accuracy or completeness of such information. Suitability of material for a specific final end use is the sole responsibility of the user. The data contained herein are typical properties only and are not to be used as specifications. (rev. 3/17/2011)

Processing

Macromeric® 0110-108 BK can be processed very easily on a wide range of commercially available extrusion equipment. A typical temperature profile would be:

Processing Conditions	
Zone 1:	300 - 320°F
Zone 2:	320 - 345°F
Zone 3:	345 - 365°F
Zone 4:	345 - 365°F
Head:	345 - 365°F
Die:	345 - 365°F
Melt Temperature:	345 - 365°F

It is recommended that Macromeric® 0110-108 BK is pre-dried in a heated desiccant system prior to processing. As processes vary widely, please call for specific requirements for your application(s).

Storage

Saco Polymers recommends that Macromeric® 0110-108 BK be stored in an ambient temperature range (40 to 80 degrees Fahrenheit), tightly sealed in its original container and away from moisture and high humidity.

Packaging

0110-108 BK is packaged at 2,000-pounds in foil-lined 41 ft³ octagon gaylords (39.5 inches in height).



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