

AuroraFlex™ CPE 17023-1

Aurora Material Solutions, LLC - Chlorinated Polyethylene

General Information

Product Description

A 105°C , flame retardant, oil resistant, CPE based jacketing material for Wire & Cable application.

Note: Additional custom color matching is available upon request.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant	• Oil Resistant	
Uses	• Jacketing	• Wire & Cable Applications	
Appearance	• Colors Available		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37 to 1.43		ASTM D792
Melt Mass-Flow Rate (MFR) (175°C/21.6 kg)	1.5	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1100	psi	ASTM D412
Tensile Strength ²	1800	psi	ASTM D412
Tensile Elongation ² (Break)	500	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	89 to 95		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ³	-76.0	°F	ASTM D746
Deformation - 2kg (250°F)	5.0	%	UL 2556
Temperature Rating	221	°F	UL 1581
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (212°F, 96 hr, in IRM 902 Oil)	75	%	UL 1581
Change in Ultimate Elongation (212°F, 96 hr, in IRM 902 Oil)	95	%	UL 1581
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+15	ohms	ASTM D257
Volume Resistivity	6.0E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (0.125 in)	35	%	ASTM D2863

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C

³ 75mil

