

AuroraGuard™ CPE 13021E

Aurora Material Solutions, LLC - Chlorinated Polyethylene

General Information
Product Description

A 105°C, oil resistant, flame retardant, E-beam curable, CPE based compound suitable for Wire & Cable applications.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• E-beam Sterilizable • Oil Resistant
Uses	• Wire & Cable Applications
Appearance	• Colors Available
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
-- ²	1320	psi	
-- ³	1900	psi	
Compression Molded	1700	psi	
Tensile Elongation			ASTM D638
Break ²	770	%	
Break ³	280	%	
Break, Compression Molded	740	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 15 sec ⁴	83		
Shore A, 15 sec ⁵	88		
Thermal	Nominal Value	Unit	Test Method
Cold Bend - Post Irradiation	-40	°F	UL 1581
Deformation - 121°C/2kg	3.1	%	UL 2556
Hot Creep ⁶ (302°F)	10	%	
Hot Set ⁶	0.0	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁷ (277°F, 168 hr)	-5.0	%	UL Unspecified
Change in Ultimate Elongation in Air ⁷ (277°F, 168 hr)	-7.0	%	UL Unspecified
Change in Tensile Strength ⁷			UL Unspecified
140°F, 168 hr, in Oil	-10	%	
212°F, 96 hr, in Oil	-49	%	
Change in Ultimate Elongation ⁷			UL Unspecified
140°F, 168 hr, in Oil	-11	%	
212°F, 96 hr, in Oil	-47	%	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index ⁸	31	%	ASTM D2863



² On wire - Thermoplastic

³ On wire - Irradiated

⁴ Thermoplastic

⁵ Irradiated

⁶ ANSI/ICEA T-28-562-2003

⁷ (On wire - after irradiation)

⁸ Post Irradiation; Value is intended for reference only

