FireCon™ CPE 1240 UV RoHS NATURAL

Chlorinated Polyethylene

Key Characteristics

Product Description
An excellent choice for low-voltage power-and-cable control cables, this RoHS compliant filled, flexible thermoplastic CPE jacketing compound offers wire and cable manufacturers the advantages of thermoplastic extrusion processing without the need to invest in continuous vulcanization (CV) equipment. CPE 1240 UV RoHS Natural is excellent for larger-diameter cable. This compound passes testing for heat/shock resistance, which requires cable to withstand being bent and twisted without cracking or showing stress. Good moisture, oil, and electrical properties. Applications include power-and-control cable for fossil-fuel and co-generation plants.

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Latin America	• North America
Additive	• UV Stabilizer		
Features	• Flame Retardant		
Uses	• Cable Jacketing	• Wire & Cable Applications	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.32	1.32	ASTM D792
Appearance	Pellets/Cubes	Pellets/Cubes	ASTM D2090
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	1300 psi	8.96 MPa	ASTM D638
Tensile Strength [2] (Break)	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation [2] (Break)	500 %	500 %	ASTM D638
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D, 10 sec)	48	48	ASTM D2240
Aging	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Change in Tensile Stress			IEC 60811-2-1
158°F (70°C), 24 hr, in IRM 902 Oil	60 %	60 %	
Change in Tensile Strain at Break			IEC 60811-2-1
158°F (70°C), 24 hr, in IRM 902 Oil	88 %	88 %	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Oxygen Index (0.0750 in (1.91 mm))	33 %	33 %	ASTM D2863

Additional Information

Note: Natural - Typical processing temperatures range between 290°-330°F depending upon screw design. Contact Technical Service for recommendation for specific equipment.

Note: Pre-drying is recommended for 4 hours at 175°-185°F.

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.

Notes

[1] Typical values are not to be construed as specifications.

[2] Type IV, 20 in/min (510 mm/min)

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