



Polyethylene PC0798

Crosslinkable Insulation Compound

Description

PC0798 is a flame retardant crosslinking polyethylene compound for low voltage insulation.

PC0798 is a halogenated, colorable, chemically crosslinkable copolmer compound which contains flame retardant additives to reduce normal flame spread characteristics so as to achieve a flame resisant rating when used according to the UL 44 Horizontal test on 14 AWG.

Specifications

Underwriters Laboratories Standards 44 and 854

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (Compound) (23 °C)	1160 kg/m3	ASTM D 792
Tensile Strain at Break	400 %	ASTM D 412
Tensile Strength	1.900 psi	ASTM D 412
Retention of Tensile Properties After Ageing (168 h, 150 °C)	> -85 %	ASTM D 412

Electrical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Dielectric constant (60 Hz) ¹	2,6	ASTM D 150
DC Volume Resistivity	10 POhm.cm	ASTM D 257
Dielectric Strength	> 550 V/mil	ASTM D 149
Dissipation Factor (60 Hz)	0,0025	ASTM D 150

¹ 23 °C

Combustion Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Limited Oxygen Index	23 %	ASTM D 2863
Typically the following process conditions are used:		
Barrel 6	240 °F 116 °C	
Barrel 1	260 °F 127 °C	

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 Polyethylene
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Melt temperature
Steam pressure

260 °F
250 psi

Maximum

Packaging

Package: Smallbins

Storage

PC0798 has a shelf life of 18 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures between 10 - 30 °C (50 - 85 °F).

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