



# 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/m <sup>3</sup>	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) <sup>1</sup>	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

<sup>1</sup> 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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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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