



# Polyethylene PC0787

Crosslinkable Insulation Compound

## Description

**PC0787** is a flame retardant crosslinking polyethylene compound for low voltage insulation.

**PC0787** contains flame retardant additives to reduce normal flame spread characteristics so as to achieve a VW-1 flame resistance rating when tested according to the UL 44 Vertical Flame test on 14 AWG/45Mils wires.

**PC0787** contains a slower peroxide and therefore provides wider processing latitude. It is recommended for control cable insulation.

## 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)	1220 kg/m <sup>3</sup>	ASTM D 792
Tensile Strain at Break	275 %	ASTM D 412
Tensile Strength	1.900 psi	ASTM D 412
Retention of Tensile Properties After Ageing (168 h, 150 °C)	> -90 %	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>	2,75	ASTM D 150
DC Volume Resistivity	10 POhm.cm	ASTM D 257
Dielectric Strength	> 550 V/mil	ASTM D 149
Dissipation Factor (60 Hz) <sup>1</sup>	0,0026	ASTM D 150

<sup>1</sup> 23 °C

## Combustion Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Oxygen Index	27 %	ASTM D 2863
Typically the following process conditions are used:		
Barrel	240 °F	
Barrel 2	250 °F	

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# Polyethylene PC0787

## Packaging

Package: Smallbins

## Storage

**PC0787** Please contact Borealis local sales office for information.

has a shelf life of 12 months from delivery 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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