



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/m3	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) ¹	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) ¹	0,0026	ASTM D 150

¹ 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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