

Borealis PE PC0787

Polyethylene

Borealis AG

Message:

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.

General Information			
Features	Crosslinkable		
	Flame Retardant		
Uses	Wire & Cable Applications		
Agency Ratings	UL 44		
	UL 854		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.22	g/cm ³	ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13.1	MPa	ASTM D412
Tensile Elongation (Break)	280	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	> 10	%	ASTM D573
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	> 22	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.75		ASTM D150
Dissipation Factor (60 Hz)	2.6E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	240	°C	
Cylinder Zone 2 Temp.	250	°C	
NOTE			
1.	Compound		

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