

Borealis PE PC0780

Polyethylene

Borealis AG

Message:

PC0780 is a flame retardant crosslinking polyethylene compound for low voltage insulation. PC0780 contains a halogen-based, flame retardant additive package designed to reduce normal PE flame spread characteristics and achieve a VW-1 flame resistant rating on 14 AWG/45mils wires and larger. PC0780 is readily pigmented to a variety of colors using standard wire & cable concentrates designed for thermoplastic or crosslinked polyethylene. UV weather resistance is obtainable by the addition of a suitable carbon black or UV additive.

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	Good weather resistance		
	Flame retardancy		
Uses	Wire and cable applications		
	Insulating material		
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 (Break)	15.0	MPa	ASTM D412
Tensile Elongation (Break)	350	%	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	> 550	kV/mm	ASTM D149
Dielectric Constant	2.60		ASTM D150
Dissipation Factor (60 Hz)	2.6E-3		ASTM D150
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	107	°C	
Melt Temperature	121	°C	
Extrusion instructions			
Barrel 6: 116°CSteam Pressure: 17 bar			
NOTE			
1.	Compound		

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