POWER DEPARTMENT

SPECIFICATION NUMBER PD-808

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Rail Protection For 150lb Rail

Spec. No. PD-828 INSULATING RAIL COVER, SPLICE CUVERS AND BRACKET COVERS

METRO-NORTH COMMUTER RAILROAD

POWER DEPARTMENT

SPECIFICATION NO. PD-808

INSULATING RAIL COVER, SPLICE COVERS AND BRACKET COVERS

PART 1 - SCOPE

1.1 This Specification covers the manufacture, testing and delivery of covers for third rail, splices and brackets.

PART 2 - GENERAL

- 2.1 Semi-flexible snap-on covers will be applied to exposed surfaces above the contact surface of third rail, end approaches, splices, brackets.
- 2.2 The following Standard Plans show the contours and dimensions of the various covers to which this Specification applies: (dimensions after installation)

Type of Cover	Standard Plan	
Third Rail Cover	SP -601	
End Approach Cover No. 2	SP -601	
End Approach Cover No. 3	SP -601	
Splice Cover	SP -602	
Bracket Cover Type 1	SP-603, SP-604	

PART 3 - MATERIALS AND WORKMANSHIP

3.1 <u>Material</u>. The covers shall be molded of black polymer 0.090 inch minimum thickness, and shall meet the following requirements:

٨.	Physical Properties	ASTH	Value
	Specific Gravity, 73 degrees F	D 7 92	1.06
	water Absorption, %, 24 hrs @ 73	alapa Mesa 💢 🛒	
	degrees F	D570	0.07
	Tensile Strength, psi & 73 degrees F	n638	6500
	flexural Strength, psi @ 73 degrees	F 0790	8000
	Flexural Modulus, psi @ 73 degrees F		
	x 10 (to the 3rd power)	D790	340
	Izod Impact Strength ft-lbs/in. noto	h	370
	9 73 cegrees F	D256	7.9
	0 40 degrees F	<i>D230</i>	3.0
	Rockwell Hardness	D765	
•	The control of the co	D/02	R113
В.	Thermal Properties	MIZA	<u>Value</u>
		****	7 M 7 M 7
	Heat Deflection Temperature		
	(264 psi), degree F	D648	185
	Coefficient of Thermal Expansion	20.0	200
	in./in./degree F		
	(-20 degrees F to 150 degrees F)		
	x 10 (to the negative 5th power)	D695	4.1
C.	Electrical Properties	1 C	
	***************************************	ASIM	<u>value</u>
	Dielectric Constant (50% RH, 73		
	degrees F @ 60 Hz)	D150	3 96
	Dissipation Factor (50% RH, 73	DIO	2.80
	degrees F @ 60 Hz)	D150	
	Volume Resistivity, dry ohm, cm	DI 20	0.0004
	75 degrees F	D 2 C 2	
		D257	10 (to
	Surface Resistivity, ohm per sq	the 15th	
		D257	
	Dielectric Strength (18 inch	the 15th	power)
	sample) volts/mil	20.0	
	UL subject @ .060 inch	D149	630
			94 V-1
	@ .09\$ inch		94 V-1
	9 .125 inch		94 V-0
	Radiant panel @ .125 inch	E62	50
	Steiner Tunnel @ .160 inch	E84	170

- 3.2 Cover for straight third rail shall be supplied in 11'-0" lengths with imprinted warning as shown on Standard Plan SP-601. The imprinted warning shall be bright yellow, weather-resistant, with letters 1-3/4 inches high.
- 3.3 Other types of covers shall be identified by the type designations on the Standard Plans, by means of molded indented characters inside each cover.

4.1 In advance of Quantity manufacture, the Vendor shall submit, for approval of the Railroad, two (2) complete sets consisting of one sample of each of the types shown on the Standard Plans. Quantity production shall begin only after authorization based on approval of the Railroad.

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