



Properties	Test Method	Unit	Peroxide Crosslinkable Semiconductive Compound										Silane Crosslinkable Semiconductive Compound				Thermoplastic Compound			
			Medium Voltage Power Cable							High Voltage Power Cable			Medium Voltage Power Cable				HDPE Jacketing	LS, HF, FR Jacketing		
			Conductor Shield		Insulation Shield				Outdoor Insulation	EPDM Insulation	Conductor & Insulation Shield			Conductor Shield	Insulation		Insulation Shield			
			1001	1016-TR	3001	3005ES	3007ES-TR	3009ES	4001	6500	0600	1500	3400	5202	5001	5001BK	5305ES	7001	8155NFR	8201NFR
Physical Form	-	-	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet	pellet
Density at 23°C	ASTM D1505	g/cm ³	1.14	1.13	1.16	1.16	1.16	1.18	0.92	1.13	1.13	1.12	1.14	1.00	0.92	0.93	1.00	1.05	1.30	1.40
Tensile Strength before Aging	ASTM D638	Mpa	17	18	16	16	15	11	24	13.5	18	15	14	13	20	20	17	24	10	12
Elongation before Aging	ASTM D638	%	200	200	300	300	300	260	550	340	205	200	200	300	550	550	350	350	550	400
Retention of Tensile Strength after Aging (121°C × 168hrs)	ASTM D638	%	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>80	>85	>85
Retention of Elongation after Aging (121°C × 168hrs)	ASTM D638	%	>90	>90	>90	>90	>90	>85	>90	>90	>90	>90	>90	>90	>90	>90	>85	>80	>85	>85
DC Volume Resistivity at 23°C	ASTM D991	Ω·cm	<100	<100	<100	<100	<100	<100	>1×10 ¹⁵	>1×10 ¹⁵	<50	<30	<30	<1000	-	-	<1000	<1000	-	-
at 90°C		Ω·cm	<1000	<500	<1000	<1000	<1000	<1000	-	-	<300	<200	<200	<3000	-	-	<3000	<3000	-	-
Heat Deformation (121°C × 2kgs)	JIS C3005	%	<25	<18	<25	<25	<18	<25	<25	<25	<18	<18	<18	-	-	-	-	<5	-	-
Brittleness Temperature	ASTM D746	°C	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-50	<-25	<-50	<-30
Stripping Force at Cable (XLPE)	ASTM D903	kg/13mm	-	-	4.5~9.0	3.5~7.0	3.5~7.0	1.5~4.0	-	-	-	-	-	-	-	-	10~30	-	-	-
Stripping Force at Cable (EPR)	ASTM D903	kg/13mm	-	-	-	-	-	5.0~9.0	-	-	-	-	-	-	-	-	-	-	-	-
Moisture Contents	Karl Fisher	ppm	<500	<500	<500	<500	<500	<500	<500	<500	<300	<300	<300	<500	<500	<500	<500	<500	<500	<500
Metal Ion Contents	ICP	ppm	-	<500	-	-	<1000	-	-	-	-	-	-	-	-	-	-	-	-	-
Limited Oxygen Index	ASTM D2863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	32
Smoke Density	ASTM E662	Dm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	92

* Data and/or information's are for guidance only : should not be used for specification work.

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