



Power Cable Insulation Compounds

Property	Density ¹⁾	MFR ^{1), 2)}	Tensile Strength ³⁾	Elongation at Break ³⁾	Relative permittivity ⁴⁾ (1MHz)	Dielectric dissipation Factor ⁴⁾ (1MHz)	Volume Resistivity ⁵⁾	XLPE/Thermo-plastic	Application	Description
Method	ISO 1183-2	ISO 1133-1	ISO 37	ISO 37	IEC 60250	IEC 60250	IEC 62631-3-1	-		
unit	kg/m ³	g/10min	MPa	%	-	-	Ω·cm	-		
Grade										
NUCV-4302 SR	922	2.2	26	600	2.30	0.0002	> 10 ¹⁷	XLPE	Extra Super-Clean XLPE Insulation for EHV/HV Power Cables up to 500kV	NUCV-4302 SR offers excellent cleanliness for EHV cable production through the NUC quality management system. It enables a long production runs due to its superior scorch resistance property.
HFDJ-4201S SR	922	2.2	26	600	2.30	0.0002	> 10 ¹⁷	XLPE	Super-Clean XLPE Insulation for HV/MV Power Cables up to 275kV	Low density cross-linkable polyethylene with extremely low contamination level. It is specially developed for high productivity through less pressure build-up and excellence scorch property during extrusion.
HFDJ-4201 SR	922	2.2	26	600	2.30	0.0002	> 10 ¹⁷	XLPE	Extra-Clean XLPE Insulation for HV/MV Power Cables	Low density cross-linkable polyethylene with low contamination level. It is specially developed for high productivity through less pressure build-up and excellence scorch property during extrusion.
HFDJ-4201S XL	922	2.0	28	600	2.30	0.0002	> 10 ¹⁷	XLPE	Super-Clean XLPE Insulation for HV/MV Power Cables up to 275kV	Low density cross-linkable polyethylene with extremely low contamination level. This grade has been widely used in Asia Pacific.
HFDJ-4201EC	922	2.0	28	600	2.30	0.0002	> 10 ¹⁷	XLPE	Extra-Clean XLPE Insulation for MV/LV Power Cables	Low density cross-linkable polyethylene with low contamination level. This grade has been widely used in Asia Pacific.
NUCV-9253S XL	919	1.0	26	600	2.29	0.0002	> 10 ¹⁷	XLPE	Super-Clean Low Sag XLPE Insulation for HV/MV Power Cables up to 275kV	Low density cross-linkable polyethylene with extremely low contamination level. This grade has been widely used in Asia Pacific.
HFDA-9253NT EC	919	1.0	26	600	2.29	0.0002	> 10 ¹⁷	XLPE	Extra-Clean Low Sag XLPE Insulation for MV/LV Power Cables	Low density cross-linkable polyethylene with low contamination level. This grade has been widely used in Asia Pacific.
HFDJ-4201S MI3	922	3.2	25	650	2.31	0.0002	> 10 ¹⁷	XLPE	Super-Clean XLPE Insulation for HV/MV Power Cables up to 275kV	Low density cross-linkable polyethylene with extremely low contamination level. This grade has been widely used in Japan for a long time and also in Asia Pacific.

1) Values measured without peroxide.

2) Measured at 190°C, 21.18N

3) Molding condition : compression 2mm sheet, Test pieces : ISO 37 type 1A, Test speed : 500mm/min

4) The value at solid, Test method: Liquid replacement, 23°C

5) Compression 0.5mm sheet, 1000V, 1min, 23°C

Note •The values are dependent upon using the testing method as indicated and are offered herein as a guide in the use of compound.