

## Solid Insulation Compounds

Property	Density	MFR <sup>1)</sup>	Tensile Strength <sup>2)</sup>	Elongation at Break <sup>2)</sup>	Relative permittivity <sup>3)</sup> (1MHz)	Dielectric dissipation Factor <sup>3)</sup> (1MHz)	Volume Resistivity	Base Polymer	Application	Description
Method	ISO 1183-2	ISO 1133-1	ISO 37	ISO 37	IEC 60250	IEC 60250	IEC 62631-3-1	-		
unit	kg/m <sup>3</sup>	g/10min	MPa	%	-	-	Ω·cm	-		
Grade										
NUC-9030	923	0.31	14	450	2.29	0.0001	> 10 <sup>17</sup>	HP-LDPE	Insulation for Telephone Cable	Excellent extrudability with smooth surface of the cable. Easy to extrude extremely thin insulation on a fine wire with high speed processing. Good physical properties. Especially excellent thermal stability and electrical properties at high frequency.
DFD-6005	919	0.25	18	750	2.28	0.0002	> 10 <sup>17</sup>	HP-LDPE	Insulation for Telephone Cable, LV Power Cable, Control Cable, Signal Cable, Instrument Cable, Coaxial Cable, etc.	Transmission loss is little in a wide range of frequency bands. Excellent mechanical properties and thermal stability. Easy extrusion in a wide range of temperature for fine wires and also coaxial wires.
DFDJ-7540	921	0.66	16	750	2.28	0.0001	> 10 <sup>17</sup>	LLDPE		Based on LLDPE with excellent abrasion resistance, ESCR, thermal stability and heat deformation resistance. Excellent extrudability with high speed and smooth surface. Transmission loss is little in a wide range of frequency bands and temperature.
DGDN-3364	946	0.80	26	210	2.33	0.0001	> 10 <sup>17</sup>	HDPE		Based on HDPE with excellent abrasion resistance, heat deformation resistance and thermal stability. Excellent extrudability with high speed and smooth surface. Excellent electrical properties in a wide range of frequency band and temperature.
NUCG-9140	946	0.88	27	200	2.34	0.0001	> 10 <sup>17</sup>	HDPE		Insulation for category-6 LAN cable

1) Measured at 190°C, 21.18N

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

3) The value at solid, Test method: Liquid replacement, 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.