

js-link KDC- 6050BK

XLPE Inner Semiconductive Compound

js-link KDC-6050BK is a Semiconductive compound for conductor shielding and bonded insulation shielding of medium voltage polyethylene insulated cable.

Property	Unit	Spec.	Test Method	Test Result
Physical Form				Pellet
Density at 23° C	g/cm ³	1.10-1.15	ASTM D1505	1.13
Tensile Strength before Aging	N/mm ²	12.5 min.	ASTM D638	17
Elongation before Aging	%	150 min.	ASTM D638	238
Retention of Tensile Strength (121°C x 168H)	%	85 min.	ASTM D638	94
Retention of Elongation (121°C x 168H)	%	80 min.	ASTM D638	92
DC Volume Resistivity			ASTM D991	
23°C	ohm·cm	5.0 x 10 ³ max.		4.1 x 10 ¹
90°C	ohm·cm	5.0 x 10 ⁴ max.		8.3 x 10 ²
Heat Deformation (121°C x 2kg)	%	25 max.	JIS C3005	18
Brittleness Temperature	°C	-10°C No Crack	ASTM D746	No Crack
Moisture content	ppm	3,000 max.	Karl Fisher	445

1. Compression molded sample cured at 175°C for 15 minute.
2. Processing conditions :
 Extrusion Temperature : 100-130°C
 Cure Temperature : 320-390°C

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