

# js-link KDC-FR470

## Thermoplastic Halogen Free Flame Retardant Sheathing Compound

**js-link KDC-FR470** is a thermoplastic polyolefin based halogen free sheathing compound with low smoke, low toxic, low corrosive gas emission in case of fire.

This compound is used for wire and cable sheathing and contains carbon black.

### Properties

Melt Index	g/10min	ASTM D1238	2.2
Density	g/cm <sup>3</sup>	ASTM D792	1.54
Oxygen Index	%	ASTM D662	45
Tensile Strength	kgf/mm <sup>2</sup>	ASTM D638	1.38
Elongation at break	%	ASTM D638	230
Thermal Aging (100°C x 96 hrs))			
Retention of Tensile Strength	%	ASTM D638	95
Retention of Elongation	%	ASTM D638	93
ESCR	EA	ASTM D1693	0
Hardness	Shore A	ASTM D 2240	92
Smoke Density		ASTM D638	100
Acidity of Combustion Gas	pH	ASTM D2863	4.6
Halogen Content	%	IEC 754-1	0
Dielectric Constant		ASTM D1531	2.26
Dissipation Factor		ASTM D1531	0.0004
Volume Resistivity at 20°C	ohm cm	ASTM D257	7 x 10 <sup>15</sup>

### Extrusion Equipment

Normal PVC or PE Extruders are suitable

L/D ratio : 23/1 -25/1

Screw compression ratio : 1.2 : 1

Extruder dia : 80 mm

Screen mesh : 40/60/20 mesh

Screw rpm : 30 rpm

Screw type : full flight

Cooling : powerful air or water cooling system

## **Extrusion Temperatures**

Zone 1	Zone 2	Zone 3	Zone 4	Head	Die
130°C	140°C	145°C	150°C	160°C	165°C

## **Predrying**

Temperature : 60°C

Hours : 4 hrs

## **Packing**

25 kg paper laminated with aluminium lined bag

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