

**ZC-5621 Irradiation Crosslinkable LSZH Insulation Compound for BV Cable(125°C)**

This material is used for halogen-free flame retardant(irradiation crosslinkable) wire and cable insulation material. It is made of high quality resin, flame retardant, antioxidant agent and cross-linking agent by mixing granulation. None-halogen property makes the materials non-toxic when burning; it has excellent flame retardancy, good physical and mechanical properties and processing performance; Heat resistance level is 125°C, can pass the VD-1 combustion test(insulation thickness: 0.8mm).

Standard: UL 1581/UL 758; JB/T 10491

Application: BV cable; Internal wiring of electronic and electrical equipment

Property

Item		Unit	Test method	Before	After
Density@23°C		g/cm ³	ASTM D792	1.43	1.43
Tensile strength		MPa	IEC 60811-1-1	12.5	15.0
Elongation at break		%		260	180
After aging @158°C, 168h	Tensile strength variation	%	IEC 60811-1-2	—	16
	Breaking elongation variation	%		—	-15
Hot prolongation@200°C, 0.2MPa, 15min	Elongation under the load	%	IEC 60811-2-1	—	25-40
	Permanent deformation	%		—	0
Low temperature bending test@-20°C		—	IEC 60811-1-4	No crack	No crack
Combustion test		—	ASTM E662	VD-1	VD-1
The halogen acid gas content		mg/g	IEC 60754-1	none	none
pH		—	IEC 60754-2	5.0	5.0
Electrical conductivity		μS/mm	IEC 60754-2	2.5	2.5
Dielectric strength@20°C		MV/m	IEC 60243-1	≥25	≥25
Volume resistivity@20°C		Ω·cm	ASTM D257	7×10 ¹⁴	7×10 ¹⁴
Hardness		Shore A	ASTM D2240	93	93
The irradiation condition: hot prolongation(25% to 40%)					

Processing

Recommend to use conventional single screw extruder and specific low smoke halogen-free screw.

Zone	1	2	3	4	5	6	Neck	Head
Temperature Range°C	135	145	150	155	160	165	170	170

- Above temperature is only for reference.

Storage

Keep at room temperature; Storage environment should be clean, dry and ventilated; Please dry it after a long-time opening; Best use within six months from the date of production.

Product packing

25kg in moisture resistant aluminum laminated bags with composite paper bags outside; palletized bottom.