

**ZC-5721 Irradiation Crosslinkable LSZH Insulation Compound for Electronic Wire(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 VW-1 combustion test.

Standard: UL 1581; UL 758/UL 62

Application: Electronic wire; Internal wiring of electronic and electrical equipment

Property

Item		Unit	Test method	Before	After
Density@23°C		g/cm ³	ASTM D792	1.15	1.15
Tensile strength		MPa	IEC 60811-1-1	11.5	14.5
Elongation at break		%		450	360
After aging @135°C, 168h	Tensile strength variation	%	IEC 60811-1-2	—	15
	Breaking elongation variation	%		—	-16
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	VW-1	VW-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	2×10 ¹⁵	2×10 ¹⁵
Hardness		Shore A	ASTM D2240	94	94
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	150	165	170	175	180	185	190	190

- 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.