



## JLS- FR105T Irradiation Cross-linkable High Flame Retardant Cable Compound for Jacket

### ◆ Application

JLS-FR105T is halogen free, low smoke, flame retardant, irradiated cross-linkable, low toxicity, low causticity cable compound. It is applicable to automobile high-voltage wire, TV high-voltage wire, etc. It maintains excellent self-extinguish property, well protection to insulation, high flame retardancy, outstanding electrical properties, and good appearance. It can be colored directly or by mixing with Polyolefin color masterbatch.

### ◆ Property Parameter

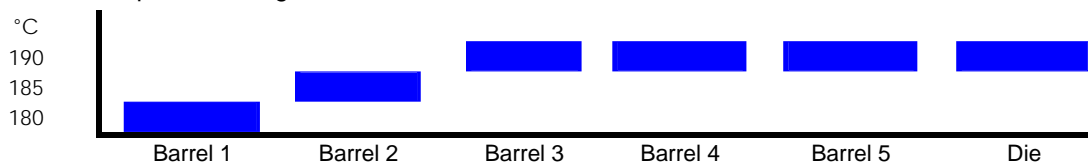
Item	Unit	Typical Value	Test Method	
Density	g/cm <sup>3</sup>	1.19	ISO 1183	
Melt Flow Index	g/10min	0.8	ISO 1113	
HCL generation	%	0	IEC 60754-1	
Toxicity Index		2.1	NES 713	
LOI	%	44	ISO 4589	
Conductivity	μS/mm	3.6	IEC 60754-2	
20°C Volume Resistivity	Ω.m	2×10 <sup>13</sup>	IEC 60502	
pH Value		6.5	IEC 60754-1	
Original Tensile Strength	MPa	16	IEC 60811	
Original Elongation	%	350	IEC 60811	
Heat Aging Method	°C × h	136 °C ×168h	IEC 60811	
Change of Tensile Strength	%	13	IEC 60811	
Change of Elongation	%	16	IEC 60811	
Cold Brittleness (-25°C)		Pass	ISO 974	
Heat Extension (200°C × 15min 20N/cm <sup>2</sup> )	Loading Extension	%	81	IEC 60811
	Permanent deformation	%	2	IEC 60811
Flame Retardancy		VW-1 FT-1	UL1581	

\*The data above is based on AWG22, with insulation thickness of 0.6mm.

### ◆ Processing Guide

#### 1) Processing Temperature

The recommended temperature range is 180°C-190°C.



#### 2) Extrusion Equipment

It can be processed in ordinary PVC processing machine. NO special screw is required. All kinds of screw combination and tooling are applicable.

### ◆ Storage & Packaging

Store in dry place at ambient temperature. Avoid direct exposure to sunlight, moisture and weathering. If pre-dry is required, place under 80°C for 2-4 hours. Use as soon as possible after open. Recommend storage period not more than 6 months. Standard packing of 25kg net in multi-layer bags (with PE bag inside). Customized package is also available.