



JLS- FR105B Thin-Wall High-Speed Extrusion Cable Compound

◆ Application

JLS-FR105B is halogen free, low smoke, flame retardant, low toxicity, low causticity cable compound for **thin-wall high-speed extrusion**. It is applicable for producing telecommunication cable and electric wire, especially those at AWG30 or below. It maintains excellent mechanical properties, flame retardancy, electrical properties, and good appearance. **NO Crosslink is required**. It can be colored directly or by mixing with Polyolefin color masterbatch.

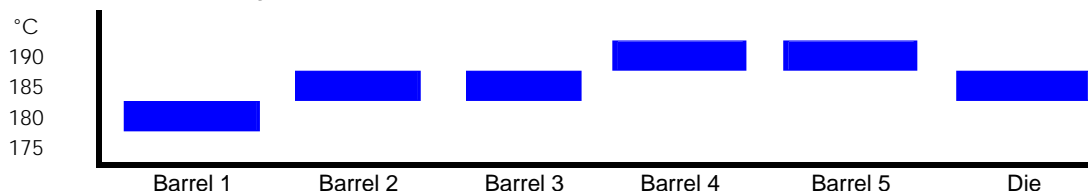
◆ Property Parameter

Item	Unit	Typical Value	Test Method
Density	g/cm ³	1.12	ISO 1183
Melt Flow Index	g/10min	2.45	ISO 1113
HCL generation	%	0	IEC 60754-1
Toxicity Index		2.1	NES 713
LOI	%	36	ISO 4589
Conductivity	μS/mm	3.6	IEC 60754-2
20°C Volume Resistivity	Ω.m	2×10 ¹²	IEC 60502
pH Value		6.5	IEC 60754-1
Smoky density	Non-Flaming Mode	86	ASTM E662
	Flaming Mode	113	ASTM E662
Original Tensile Strength	MPa	14	IEC 60811
Original Elongation	%	560	IEC 60811
Heat Aging Method	°C × h	136 °C ×168h	IEC 60811
Change of Tensile Strength	%	15	IEC 60811
Change of Elongation	%	23	IEC 60811
Cold Brittleness (-25°C)		Pass	IEC 60811
Flame Retardancy		VW-1 FT-1	UL1581

◆ Processing Guide

1) Processing Temperature

The recommended temperature range is 190°C-200°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).