



JLS- FR90B 90°C Thin Wall High Speed Extrusion Cable Compound

◆ Application

JLS-FR90B 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. It can be colored directly or by mixing with Polyolefin color masterbatch.

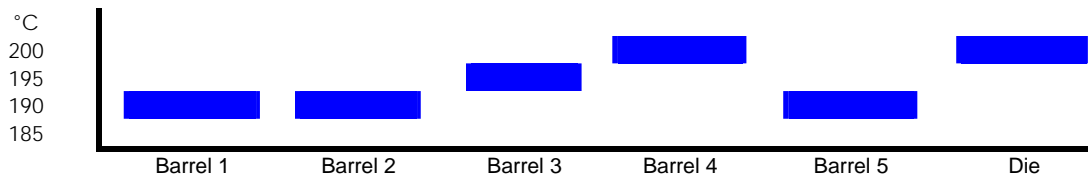
◆ Property Parameter

Item	Unit	Typical Value	Test Method
Density	g/cm ³	1.11	ISO 1183
Melt Flow Index	g/10min	1.62	ISO 1113
HCL generation	%	0	IEC 60754-1
Toxicity Index		2.1	NES 713
LOI	%	40	ISO 4589
Conductivity	μS/mm	3.6	IEC 60754-2
20°C Volume Resistivity	Ω.m	2 x 10 ¹²	IEC 60502
pH Value		6.5	IEC 60754-1
Smoke Density	Non-Flaming Mode	82	ASTM E662
	Flaming Mode	116	ASTM E662
Original Tensile Strength	MPa	16	IEC 60811
Original Elongation	%	570	IEC 60811
Heat Aging Method	°C x h	125 °C x168h	IEC 60811
Change of Tensile Strength	%	9	IEC 60811
Change of Elongation	%	14	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). Customized package is also available.