



FR90HA LSNH High Flame Retardant Cable Compound for Jacket

◆ Application

FR90HA is applicable to power cable, power supply cord, signal cable and communication cable with excellent flame retardancy and extrudability. It passes VW-1 (Single Vertical Flame Test), and complies with IEC60332-3 Level A, B and C (flame test on bunched wires/cables) with different cable construction.

◆ Property Parameter

Item	Unit	Typical Value	Test Method
Density	g/cm ³	1.21	ISO 1183
Melt Flow Index (190°C, 2.16KG)	g/10min	0.60	ISO 1133
HCL generation	%	ND	IEC 60754-1
LOI	%	32	ISO 4589
Conductivity	μS/mm	7.5	IEC 60754-2
20°C Volume Resistivity	Ω.m	1.18 x 10 ¹¹	IEC 60093
pH Value		8	IEC 60754-2
Smoke Density	Non-Flaming mode	71	ASTM E662
	Flaming mode	180	ASTM E662
Tensile Strength	MPa	12	IEC 60811
Elongation	%	400	IEC 60811
Heat Aging Method	°C × h	110 °C × 168h	IEC 60811
Change of Tensile Strength	%	9	IEC 60811
Change of Elongation	%	15	IEC 60811
Heat Deformation	%	5	IEC 60811
Toxicity index		3.1	NES 713
Cold Brittleness (-25°C)		Pass	IEC 60811

◆ Processing Guide

1) Processing Temperature

The recommended temperature range is 120°C-170°C.

Barrel 1	Barrel 2	Barrel 3	Barrel 4	Barrel 5	Die
120°C	150°C	160°C	165°C	170°C	170°C

2) Extrusion Equipment

It can be processed in ordinary PVC processing machine, standard extruders with gradually changing screw having L/D ≥ 25.

◆ Storage & Packaging

Store in dry place at ambient temperature. Avoid direct exposure to sunlight, moisture and weathering. If water content > 0.2%, pre-dry under 90°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 vacuum pack. Customized package is also available.