

寶絡聚合物有限公司 Puro Polymers Ltd

FR90HD LSNH High Flame Retardant Cable Compound for Jacket

Application

FR90HD is designed as the outer sheath of fire resistant power cable, power supply cord, signal cable and communication cable which require achieving the standard of GB19216, IEC60331 and BS6387 by simplified structure without mica tape and armor.

Property Parameter

Item		Unit	Typical Value	Test Method	
Density		g/cm ³	1.25	ISO 1183	
Melt Flow Index (190°C, 2.16KG)		g/10min	0.60	ISO 1133	
HCL generation		%	ND	IEC 60754-1	
LOI	LOI		28	ISO 4589	
Conductivity		μS/mm	6.2	IEC 60754-2	
20℃ Volume Resistivity		Ω.m	1.18 x 10 ¹¹	IEC 60093	
pH Value	pH Value		6.9	IEC 60754-2	
Smoke Density	Non-Flaming mode		72	ASTM E662	
Official Defisity	Flaming mode		71	ASTM E662	
Tensile Strength	Tensile Strength		11	IEC 60811	
Elongation	Elongation		380	IEC 60811	
Heat Aging Method		°C × h	110 °C ×168h	IEC 60811	
Change of Tensile Strength		%	8	IEC 60811	
Change of Elongation		%	13	IEC 60811	
Heat Deformation		%	8	IEC 60811	
Toxicity index			3.1	NES 713	
Cold Brittleness (-25°C)			Pass	ISO 974	

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	165°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.