



JLS- FR105H / 105J LSNH Flame Retardant Cable Compound for Jacket / Insulation

◆ Application

JLS-FR105H / 105J is applicable for medium to low voltage power cord/cable with working temperature at 105°C. **NO crosslink required.** It passes VW-1 Vertical Flame Test, and complies with IEC60332-3 Level A and Level B (flame test on bunched wires/cables) with different cable construction. It can be colored directly or by mixing with Polyolefin color masterbatch.

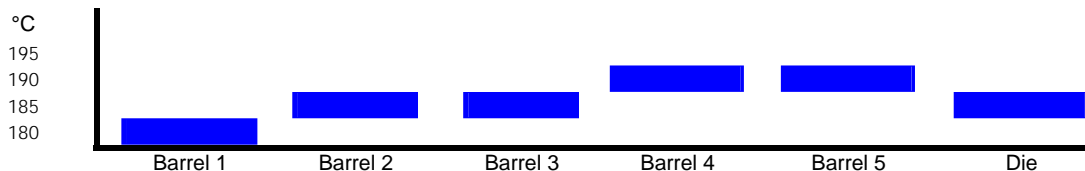
◆ Property Parameter

Item	Unit	Typical Value		Test Method
		105H	105J	
Density	g/cm ³	1.11	1.10	ISO 1183D
Melt Flow Index	g/10min	1.42	0.81	ISO 1113
HCL generation	%	0	0	IEC 60754-1
Toxicity Index		3.80	3.20	NES 713
LOI	%	40	36	ISO 4589
Conductivity	μS/mm	2.60	2.60	IEC 60754-2
20°C Volume Resistivity	Ω.m	2.5×10 ¹¹	1.3×10 ¹²	IEC 60502
pH Value		6.90	6.90	IEC 60754-1
Smoke Density	Non-Flaming mode	73	83	ASTM E662
	Flaming mode	87	92	ASTM E662
Tensile Strength	MPa	13	15	IEC 60811
Elongation	%	520	500	IEC 60811
Heat Aging Method	°C × h	135 °C ×168h		IEC 60811
Change of Tensile Strength	%	13	13	IEC 60811
Change of Elongation	%	15	15	IEC 60811
Heat Deformation	%	13	11	IEC 60811
Cold Brittleness (-25°C)		Pass	Pass	ISO 974

◆ 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).