



FR112R LSNH Flame Retardant Cable Compound

◆ Application

FR112R is designed for wind power cable, power cord, phone wire, USB connector cable, wiring for computer and peripheral equipment. It is characterized by flexibility at lower temperature, high weather-resistance, good flame retardancy and easy to process.

◆ Property Parameter

Item	Unit	Typical Value	Test Method
Density	g/cm ³	1.15	ISO 1183
Hardness	Shore A	82	ISO 2039-2
HCL generation	%	ND	IEC 60754-1
Conductivity	μS/mm	6.3	IEC 60754-2
pH Value		6.1	IEC 60754-2
Tensile Strength	MPa	35	IEC 60811
Elongation	%	560	IEC 60811
Heat Aging Method	°C × h	110 °C × 168h	IEC 60811
Change of Tensile Strength	%	10	IEC 60811
Change of Elongation	%	12	IEC 60811
Heat Deformation (90°C)	%	5	IEC 60811
Cold Brittleness		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
160°C	175°C	180°C	185°C	185°C	175°C

2) Extrusion Equipment

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

◆ 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.