

FR333W HFFR TPE Cable Compound for Insulation and Jacket

Application

FR333W 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, excellent physical performances and easy to process.

Property Parameter

Item	Unit	Typical Value	Test Method	
Density	g/cm ³	1.05	ISO 1183	
Hardness	Shore A	75	ISO 2039-2	
Tensile Strength	MPa	13	IEC 60811	
Elongation	%	460	IEC 60811	
Heat Aging Method	°C × h 120 °C ×168 ength % 12		IEC 60811	
Change of Tensile Strength			IEC 60811	
Change of Elongation	%	-11	IEC 60811	
Heat Deformation (120°C)	%	10	IEC 60811	
HCL generation	%	ND	IEC 60754-1	
Conductivity	μS/mm		IEC 60754-2	
20°C Volume Resistivity	Ω.m	1.0 x 10 ¹⁵	IEC 60093	
pH Value		5.2	IEC 60754-2	
Flame Retardancy		VW-1, Pass (NO Dripping)	UL1581	
Cold Brittleness (-60°C)		Pass	IEC 60811	

Processing Guide

1) Processing Temperature

The recommended temperature range is 140°C-190°C.

Barrel 1	Barrel 2	Barrel 3	Barrel 4	Barrel 5	Die
140°C	165°C	175°C	185°C	190°C	190°C

2) Extrusion Equipment

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

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.