Granule Type: PP-S10B

Cross-linkable Polyethylene Compound (XLPE)

Description

Crosslinking improves the mechanical and thermal properties of the final product, making it suitable for various applications such as insulation for wires and cables, pipes, and industrial uses. The combination of **PP-S10B** and SPCAT-C10 is an efficient solution for manufacturers looking to enhance the performance of their polyethylene products. PP-S10B is a grafted polyethylene that can be processed with its catalyst masterbatch (SPCAT-C10) in standard extrusion machines. Crosslinking occurs when the materials are exposed to moisture.

General	
Material Status	Commercial: Active
Additive	. Antioxidant .Carbon Black .Polymer Processing Aid
Features	. Black /High Purity .Cross-linkable . Good process ability
Uses	. Cable jacketing . Insulation
Appearance	Black
Forms	Pellets
Packaging	25Kg sacks
Processing Method	Extrusion

Physical & Mechanical Properties	**Standard & Test Method**	**Unit**	**Value**
Density	IEC 60811-606	gr/cm^3	0.951
Melt -Flow Index (MFI)(190 ˚C/5 kg)	IEC 60811-511	g/10 min	2.4
Carbon black Content	ASTM D1603	%	2.15
Hardness	ASTM D2240	Shore D	58
Tensile Strength	IEC 60811-501	MPa	26±2
Tensile Strain		%	484
Ageing(150°C,10days)			
Tensile Strength	IEC 60811-401	MPa	22±2
Variation of Tensile Strength		%	Max 20
Tensile Strain		%	410
Variation of Tensile Strain		%	Max 20
Hot Set(200°C, 0.30 MPa)			
Elongation under load,	IEC 60811-507	%	< 50
Permanent Elongation After cooling		%	< 10

These items can undergo crosslinking by being immersed in hot water or exposed to low-pressure steam at temperatures of up to 90°C. The duration of this process may vary depending on factors such as humidity, insulation thickness, reel size, and temperature.