Granule Type: PP-L12

Cross-linkable Polyethylene Compound (XLPE)

Description:

Crosslinking enhances the mechanical and thermal properties of the final product, making it versatile for applications like wire insulation, pipes, and industrial uses. The combination of SPLINK-L12 and SPCAT-C12 offers an efficient solution for manufacturers looking to boost polyethylene product performance. SPLINK-L12, a grafted polyethylene, can be processed with its catalyst masterbatch (SPCAT-C12) in standard extrusion machines, with crosslinking triggered by exposure to moisture.

General	
Material Status	Commercial: Active
Additive	.Anti-Oxidant .Polymer Processing Aid
Features	● Clean /High Purity ● Cross-linkable ● Good Processability
Uses	.Insulation
Appearance	Natural color
Forms	Pellets
Packaging	25Kg sacks
Processing Method	Extrusion

Physical & Mechanical Properties	**Standard & Test Method**	**Unit**	**Value**
Density	IEC 60811-606	gr/cm^3	0.93
Melt Flow Index (MFI) (190 ˚C/5 kg)	IEC 60811-511	g/10 min	3
Hardness	ASTM D2240	Shore D	58
Tensile Strength	IEC 60811-501	MPa	>17
Tensile Strain		%	>400
Ageing(150°C,10days)			
Variation of Tensile Strength	IEC 60811-401	%	Max 25
Variation of Tensile Strain		%	Max 25
Hot Set(200°C, 0.20 MPa)			
Elongation under load,	IEC 60811-507	%	< 70
Permanent Elongation After cooling		%	< 10
Electrical			
Dielectric Constant	IEC 60250		< 2.9
Dissipation Factor 50 Hz	IEC 60250		<0.0005
Dielectric Strength	IEC 60243-1	kV/mm	>22
DC Volume Resistivity	IEC 60093	Ω cm	10^{15}

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.