Eltex® PF6160AP

Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Non stabilised Linear Low density polyethylene flake (free flowing powder).
Benefits & Features
ELTEX ® PF6160AP is a non stabilised Linear Low density polyethylene flake (free flowing powder) grade manufactured by Ineos Olefins and Polymers Europe containing hexene-1 as the comonomer produced with a metallocene catalyst.
5 to 20 % of ELTEX ® PF6160AP powder can be used in combination with LLDPE and LDPE pellets as absorber of X-linking agent of Low Voltage Silane Crosslinked insulation.
In addition ELTEX ® PF6160AP can be used at a level of 100 % for low voltage silane crosslinked insulation by adding 0.7 -0.9 % of vinyl trimethoxysilane, a suitable peroxide and a crosslinking catalyst. Commercial mixtures can be used for this purpose.
The absorption level and the absorption conditions will depend on the nature of the liquid to be dispersed. In most of the cases, a 10 % in weight of liquid can be easily absorbed in ELTEX ® PF6160AP.
Good level of porosity which induces a good liquid X-linking agents absorption (silane, peroxide…)
Higher X-linking efficiency with a good X-linking agent dispersion to the benefit of lower X-linking agent content
Suitable melt index and density for easy dispersion in most of polyethylenes
Excellent flake morphology with high diameter and low fines content: free flowing powder induces a good extruder feeding and a good dispersion in the barrel
Higher output and productivity
High bulk density to the benefit of easy handling and transfer of the powder
Applications
ELTEX ® PF6160AP represents an interesting balance of properties for applications as liquids carrier in reactive processing.
Carrier for color concentrates, master-batches
Crosslinked Wire & Cable insulation
Textile coating
Hot & Cold PEX Pipe

General Information	
Features	Copolymer Hexene Comonomer
Uses	Insulation Masterbatch Textile Applications Wire & Cable Applications
Forms	Flakes Powder

Physical	Nominal Value	Unit	Test Method
Density [1]	0.916	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.5	g/10 min	ISO 1133
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	103 to 116	°C	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257

Dielectric Constant (50 Hz)	2.20	ASTM D150
Dissipation Factor (50 Hz)	< 3.0E-3	ASTM D150

NOTE	
1.	Conditioning ISO 1872/1

Recommended distributors for this material

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