



## PLEXmod® - 27

### Modifier Grade 27

#### Characteristics

**PLEXmod® 27** is a proprietary masterbatch that contains several special additives that stabilizers and modifiers the properties of the polyethylene insulation material use in the manufacture of power cables. The masterbatch contains a metal deactivator component that protects the insulation against metal degradation. The flow improver and processing additives ensures trouble and scorch free extrudability. A key ingredient is a modifier which reduces the stress of cable after it is drawn thus significantly reduces shrinkage potential of the cable. The modifier also broadens the processing conditions allowing for wider processing parameters.

#### Application

**PLEXmod® 27** is designed to be used in self compounding processes such as the monosil system or the Siloxan (absorption) method. It fulfills the heat and chemical stabilization requirement of insulation with or without the presence of copper. It can be used in the silane crosslinking systems to meet IEC aging requirements. Dosage rate is generally between 22-25%. The typical properties of finished insulation with **PLEXmod® 27** are as follows;

Properties	Test Method	Unit	Value
Tensile strength @ break	ISO R527	MPa	15.5
Ultimate Elongation	ISO R527	%	550
Dielectric Constant	IEC 811		2.3
Change in Tensile strength @ break after aging**	IEC 811	%	7
Change in Tensile strength @ break after aging**	IEC 811	%	6

\*\* : Aging @ 135 °C for 7 days

#### Technical Data

Properties	Component	(%)	
Physical form :	Solid pallet	Carrier Resin	50.0-58.0
Color :	Natural	Anti-Oxidant	4.0-5.0
Sp. Gravity @ 23 °C :	0.95	Metal Deactivator	1.0-1.5
Melt Flow Index (2.16 kg) :	2 g / 10 mins	Silicone Oil	0.8-1.3
Moisture :	< 200 ppm	Processing aid modifier	0.9-1.4
			34.0-45.0

#### Storage and Handling

**PLEXmod® 27** is supplied in pallet form, packed in PE lined bags. Unopened bags can be stored for 1 year. Store bags in shaded area. This product can be readily conveyed and fed through conventional equipment designed for palletized polyethylene.

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