



Kalpena Industries Limited

An ISO 9001:2008 company
TECHNICAL DATA

Thermoplastic Semi Conductive Strippable Compound :

KI – TPC – 08S

DESCRIPTION :

KI-TPC-08S is thermoplastic semi conductive (strippable) Compound specially developed for Insulation shielding for Sioplas based medium voltage power cables. The base polymer is copolymer modified polyolefin suitable for 90°C continuous service temperature.

SPECIFICATIONS :

Cables with conductor and bondable insulation, shielding of KI-TPC-08S when made using standard manufacturing and test procedure meet the following cable specifications:

- BS 6622
- IEC 60502

TYPICAL PROPERTIES :

Properties	Unit	Typical Value	Test Method
Density	gm / cm ³	1.15	ASTM D-1505
Tensile Strength	MPa	10.00	ASTM D-638
Elongation at Break	%	100	ASTM D-638
DC Volume Resistivity @ 27°C	Ohm-cm	50	ASTM-D-991
Stripping Force	Kg / 12.7mm	4.0 – 6.0	KIL

RECOMMENDED PROCESSING CONDITIONS :

Suitable for conventional PE wire and cable extrusion line.

The recommended melt extrusion temperature is 130°C – 160°C. The actual processing condition has to be determined by trial on specific extruder as this may vary depending on the extruder / head and toolings used.

PRE DRYING : Semi conductive Compounds absorb moisture, which is undesirable to get smooth surface. It is therefore recommended that the compound KI-TPC-08S should be thoroughly dried (preferably by dehumidified hot air) at 55°C – 60°C for 3 – 4 hours prior to changing in extruder feed.

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- PACKAGE** : 25 Kg packed in HM – HDPE inner liner and aluminum foil liner in Woven Sack
- STORAGE** : Storage should be in cool & proper place. Bags should be kept top of
of
Wooden or plastic pallets.

KIL has compiled the above information from authoritative sources and believe that is the best currently available on this subject. It is offered as a guide it trails you may care to undertake along these lines. It is subjected to revision as additional knowledge and experience are gained. KIL makes no guarantee to results and assume no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under of suggest infringement of any existing patents.

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