



KLJ POLYMERS & CHEMICALS LIMITED

MDPE COMPOUND

KLJ- MDPE

Description:

KLJ-MDPE is a natural , colourable medium density compound. It is characterized by good heat deformation properties. Its melt temp. is above 120°C . it has good abrasion resistance , low water permability and low coefficient of friction. It is well suited for insulation and cable jacketing of power cables . it can resist severe laying condition.

Specifications:

KLJ-MDPE Compound meets the following specifications.

IEC – 60502 , ST-7 ,IEC -60840 ST7

BS 6234 : Type 03

Physical Properties:

Sr.No	Parameter	Unit	Test Method	Spécification	Observed Value
01	Melt Flow Index. 2.16kg load	Gm/10min	ASTM D-1238	-	0.58
02	Density	g/cm ³	ASTM D-792	-	0.93
03	Tensile Strength (min.)	Mpa	IS 10810 Part-7	12.5	14.9
04	Elongation at break (min.)	%	IS 10810 Part-7	300	767
05	Variation in properties after ageing @ 110±3 °C for 14 days				
'a	Tensile Strength	%	IS 10810 Part-11	-	Result come on 14/11/12 UT
;b	Elongation at break	%	IS 10810 Part-11	300 min.	
06	Volume Resistivity @ 27°C (min.)	Ohm-cm	IS 3396	1 x 10 ¹⁶	2 x 10 ¹⁶
07	Shrinkage @ 80±3°C/5 hour (max.)	%	IS 7098	3.0% m ax.	0.50
08	Dielectric Constant (max)		IEC-60250	-	2.1
09	Dissipation Factor (max)		IEC-60250	-	0.0009
10	Dielectric Strength(min)	V/mil	IEC-60243	-	930
11	Durometer Hardness	Sh-D	ASTM D-2240	-	57

Processing Guidelines:

Pre-drying of MDPE. : 100°C
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Typical process parameters are recommended as under:

Zone -1: 145 ± 10°C, Zone-2 : 150 ± 10°C, Zone- 3 : 170 ± 10°C,
Zone-4 : 185 ± 10°C, Zone-5 : 200 ± 10°C, X-Head & Die : 230 ± 10°C.

Shelf Life/Storage:

KLJ-MDPE can be stored for 6 -12 months from date of manufacturing , without significant deterioration of the quality of material. However, it is recommended to be consumed as soon as possible.

KLJ-MDPE is recommended to be stored at in a cool, dry & clean environment in unopened original packaging.

Packaging:

KLJ-MDPE granules are packed in 25 kg bags, which are protected from moisture ingress.

Safety:

KLJ-MDPE are not classified as dangerous preparation.

The products are supplied in the form of free-flowing granules of approx. 2-3 mm size and can be readily handled with commercially available equipment. Handling and transport of the products may generate some dust and fines, which constitute a potential hazard for dust explosion. All metal parts in the system should, therefore, be properly grounded. Properly designed equipment and good housekeeping will reduce the risk. Inhalation of any type of dust should be avoided as it may cause irritation of the respiratory system.

The product is intended for industrial use only. MSDS is available on request.

Disclaimer:

- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however some adjustments may be required on individual machine.
- All properties are tested as per ASTM/IS/IEC standards.
- Any data may change without prior information.
- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warranty whatsoever, after processing.