



KETTLITZ-Mediaplast PS-1

- technical leaflet -

Mediaplast PS-1 is a synthetic plasticizer based on polyalkylbenzene, which is mainly recommended for the use in elastomers with low to medium polarity, e. g. NR, IIR, BR, SBR, EP(D)M, but also CR, CM/CSM, EVA and PNR.

In non-polar compounds, compared to mineral oil plasticizers, extremely high dosages are possible without the danger of migration of the plasticizer.

Mediaplast PS-1 has non-staining properties, therefore even light or colored compounds can be produced. The product is free of sulfur and its derivatives and has a high degree of saturation; therefore the produced rubber articles show excellent mechanical properties. Due to the low setting point of approx. -24 °C the finished products also have an extraordinary cold flexibility.

Mediaplast PS-1 does not contain any heavy metals or polycyclic ingredients worth mentioning. Therefore it is not considered hazardous.

Properties

Chemical Characteristics		polyalkylbenzene
Appearance		yellow liquid
Color	(ASTM D 1500)	max. 2
Density at 15 °C	(g/cm ³)	0.891 ± 0.010
Refraction Index n_D^{20}		1.497 ± 0.005
Viscosity at 50 °C	(mm ² /s)	300 ± 30
Flash Point	(°C)	approx. 190
Setting Point	(°C)	approx. -24
Volatility, 2 h at 160 °C	(%)	< 2
Physiol. Behavior		see safety data sheet
Storage Stability		10 years under suitable storage conditions
Packing		drums containing 180 kg net