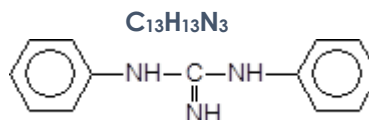


DPG masterbatch (Guanidine accelerator)

- DIPHENYL GUANIDINE
- Molecular Weight : 211.3
- CAS : 102-06-7
- EINECS : 203-002-1



PRODUCT	Active Content (%)	Colour N for Natural P for Pigment	Filtration (µm)	Mooney ML (1+4) 80°C Typical value	Density Typical value
DPG 80 GA F140	80	Mauve* (P)	140	30	1.13

GA: Granules co-polymer of acetate/acrylate & polyethylene

* Depending on natural variation of DPG

ACTIVE MATERIAL TYPICAL VALUES

- Melting point : 147 °C
- Purity : 96%

REMARKS

Staining

PROPERTIES

As a primary accelerator for NR, Mixland+® DPG masterbatch is very slow and, consequently, rarely used alone.

For NR and SBR, it is mainly used as a secondary accelerator or as a booster for thiazoles, but also for sulfenamides (when moderate increases in cure rate are desired).

Mixland+® DPG masterbatch increases the curing speed, gives a vulcanisate of higher modulus, and does not reduce the scorch time too severely. It is used in thick rubber parts in order to obtain homogenous curing network. When high level of silica, it helps silanisation reaction and increases rubber/filler-bound. Curing time is better because DPG avoids CBS absorption by silica and process is safer thanks to a decrease of viscosity. Moreover, it acts in synergetic effect in CR compound in association with Mixland+® SD.

Owing to discoloration, it is mostly used for dark or black colour products. It gives a slightly bitter taste so it is unsuitable for applications in the manufacture of food-contact materials.

Mixland+® DPG masterbatch readily disperses in rubbers. Proper vulcanization is obtained at temperatures above 143°C. It must be used with ZnO to give good vulcanization.

APPLICATIONS

Footwear, tires, tubes, mechanical goods, moulded goods, hard rubber products, etc...

PACKAGING & STORAGE

- Cardboard box weight : 25 kg net
 - Standard CP3 pallet : 600 kg - Do not pile more than 2 pallets height
 - Shelf-life : **2 years** in its original packaging
- Store in a dry and cool place and away from direct sources of heat or sunlight.

SAFETY & TOXICITY

For detailed information, please refer to our Material Safety Data Sheet.

NITROSAMINE FREE

MIXLAND+® MASTERBATCH ALLOWS:

- Dust free products with a high level of filtration up to 100µ
- Tack free products at room temperature
- Lower Mooney viscosity, improving quality of dispersion
- Scrap rate reduction thanks to filtration
- Wider compatibility with elastomers

The information contained in this leaflet is based on tests carried out by our laboratories and data selected from the literature but shall in no event be held to constitute or imply any warranty or undertaking. No liability whatsoever can be accepted with regard to the handling, processing or use of the products concerned, which must in all cases be employed with regard to all relevant regulations and/or legislation in the country or countries concerned.

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TECHNICAL DATA SHEET

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