

## NEFA® MB P

Thermoplastic Polymer Materials on the Basis of Polydimethylsiloxane-Polyurea Copolymers

### Product Description:

NEFA® MB P materials are thermoplastic elastomers based on polydimethylsiloxane-polyurea copolymers. With these systems, urea hard segments form thermally reversible network points and give the copolymers dimensional stability, with the polydimethylsiloxane sequences acting as soft segments.

Thermoplastic elastomers of the product group NEFA® MB P combine the properties of conventional silicone elastomers with the advantage of thermoplastic processability.

NEFA® MB P materials are characterised in particular by the following properties:

- high transparency
- high UV resistance
- high mechanical strength in comparison with silicone elastomers
- thermoplastic workability

Unmodified and unfilled NEFA® MB P materials can be produced customer-specific in a hardness range of Shore A 35 – Shore A 80. The tensile strength of the materials is between 1.5 and 6 MPa, depending on the hard segment level.

thermoplastic polydimethylsiloxane-polyurea copolymers.

electronics, textiles, automotive industry, etc.

variable, customer-specific

pourable, cylindrical granulate

application temperature range 160°C - 230°C in injection moulding machines or extruders

< 0.5 %

in undamaged, closed, original containers in a cool place

25 kg bags or BigBags

Commercial / industrial user will find related information in the Material Safety Data Sheet.

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### Material Base:

### Uses:

### Colours:

### Properties:

### Application:

### Residual Moisture:

### Storage:

### Packaging Unit:

### Hazard Information and Safety Advise:

### Technical Service and Production Location:

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This technical information has been compiled based on the state of the art and our experience. In view of the large number of possible requirements and conditions it is however still your responsibility as purchaser/user to check that our product/products are actually suitable for the planned application. If you still have queries about our product (e.g. about uses which are not listed in this technical information or about applications), please contact us, we would be pleased to respond. This Technical Information is only valid in its most recent version. If necessary, please make sure this version is valid with an appropriate enquiry to us..