

EPAMOULD 175A56 is a phthalate free polyester based thermoplastic polyurethane with high crystallization rate and excellent dimensional stability.

Typical properties

| | | |
|---------------------|----------|-------------------------|
| Density | ISO 1183 | 1,19 Kg/dm ³ |
| Hardness | ISO 868 | 76 Shore A |
| Tensile strength | EN 12803 | 30 MPa |
| Elongation at break | EN 12803 | 650 % |
| Tear strength | ISO 34 | 55 KN/m |
| Abrasion resistance | EN 12770 | 50 mm ³ |

The values quoted have been measured using standard test specimens at room temperature. The figures should be considered as indicative values only and not as binding minimum values.

Actual properties of TPU parts can be affected to a considerable extent by the design of the mould, the processing conditions and the additives used. For these reasons they have to be determined on the actual TPU articles on a statistical bases. Full-scale testing and end product performance are full responsibility of the user.

Packaging and storage

EPAMOULD 175A56 is supplied in 25 kg aluminium bags. Depending on actual transport conditions pallets can be composed by 35 or 30 bags (875 or 750 Kg). Epamould TPUs may be stored for 12 months from the date of shipment, sealed in the original package.

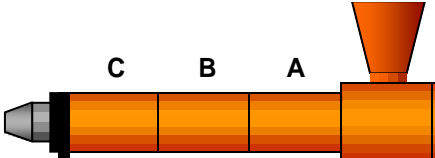
Material preparation

To ensure trouble free processing and high quality injection moulded parts it is preferable to dry EPAMOULD 175A56 before use. The recommended drying conditions are 3 hours at 95°C in a desiccant dryer.

Equipment

Standard injection moulding machines with general purpose screws of 40 to 60 mm diameter and an L/D ratio of 20 : 1 to 30 : 1 are normally suitable for the injection moulding of EPAMOULD 175A56.

Recommended injection moulding parameters

| INJECTION TEMPERATURES | | | |
|---|--------|----|-----------|
|  | ZONE A | °C | 160 – 180 |
| | ZONE B | °C | 165 – 185 |
| | ZONE C | °C | 160 – 180 |
| | NOZZLE | °C | 155 - 175 |

Health and safety advice

People handling this product must be informed of all the necessary precautions that must be taken. These are detailed in the relevant Material Safety Data Sheet which will be provided by Epaflex Polyurethanes srl.

The information contained herein is believed to be reliable but, no representations, guarantees of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. It is imperative that the users test our products, technical assistance and information, to determine to their own satisfaction whether they are suitable for their intended use and applications. All information, technical assistance and advice are provided without warranty or guarantee, and is subject to change without notice. Nothing herein shall be construed as a recommendation or permission to practice any patented invention without permission of the patent owner

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