EPAFLEX POLYURETHANES

EPAMOULD ١٧٥ A٥٦

EPAMOULD ١٧٥A٥٦ is a phthalate free polyester based thermoplastic polyurethane with high crystallization rate and excellent dimensional stability.

Typical properties

Density	ISO ١١٨٣	١،١٩ Kg/dm^{٣}
Hardness	ISO ٨٦٨	٧٦ Shore A
Tensile strength	EN ١٢٨٠٣	٣٠ MPa
Elongation at break	EN ١٢٨٠٣	٦٥٠ %
Tear strength	ISO ٣٤	٥٥ KN/m
Abrasion resistance	EN ١٢٧٧٠	٥٠ mm^{٣}

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 ١٧٥A٥٦ is supplied in ٢٥ kg aluminium bags. Depending on actual transport conditions pallets can be composed by ٣٥ or ٣٠ bags (٨٧٥ or ٧٥٠ Kg). Epamould TPUs may be stored for ١٢ months from the date of shipment, sealed in the original package.

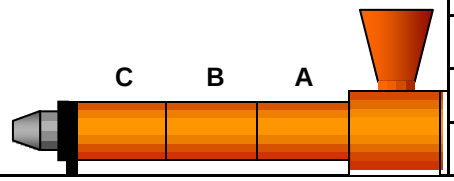
Material preparation

To ensure trouble free processing and high quality injection moulded parts it is preferable to dry EPAMOULD ١٧٥A٥٦ before use. The recommended drying conditions are ٣ hours at ٩٥°C in a desiccant dryer.

Equipment

Standard injection moulding machines with general purpose screws of ٤٠ to ٦٠ mm diameter and an L/D ratio of ٢٠ : ١ to ٣٠ : ١ are normally suitable for the injection moulding of EPAMOULD ١٧٥A٥٦.

Recommended injection moulding parameters

INJECTION TEMPERATURES			
	ZONE A	°C	١٦٠ – ١٨٠
	ZONE B	°C	١٦٥ – ١٨٥
	ZONE C	°C	١٦٠ – ١٨٠
	NOZZLE	°C	١٥٥ - ١٧٥

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.

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