

EPAMOULD 690A10 is a polyester based thermoplastic polyurethane, particularly suitable for the injection moulding of shoe soles and engineered parts

Typical properties

Density	ISO 1183	1,19 Kg/dm ³
Hardness	ISO 868	92 Shore A 41 Shore D
Tensile strength	EN 12803	40 MPa
Stress @ 100% elongation	EN 12803	7,5 MPa
Stress @ 300% elongation	EN 12803	15 MPa
Elongation at break	EN 12803	450 %
Tear strength	ISO 34	85 KN/m
Abrasion resistance	EN 12770	30 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 690A10 is supplied in 25 kg PE bags. Depending on actual transport conditions pallets can be composed by 35 or 40 bags (875 or 1000 Kg). Epamould TPUs may be stored for 12 months from the date of shipment, sealed in the original package.

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EPAMOULD 185A56 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	85 Shore A
Tensile strength	EN 12803	35 MPa
Elongation at break	EN 12803	580 %
Tear strength	ISO 34	67 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 185A56 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.

EPAMOULD 192A51 is a 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	90 Shore A
Tensile strength	EN 12803	45 MPa
Elongation at break	EN 12803	500 %
Tear strength	ISO 34	115 KN/m
Abrasion resistance	EN 12770	< 30 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 192A51 is supplied in 25 kg aluminium bags. Depending on actual transport conditions pallets can be composed by 35 or 40 bags (875 or 1000 Kg). Epamould TPUs may be stored for 12 months from the date of shipment, sealed in the original package.

EPAMOULD DPS 160 A 56 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	64 Shore A
Tensile strength	EN 12803	20 MPa
Elongation at break	EN 12803	720 %
Tear strength	ISO 34	33 KN/m
Abrasion resistance	EN 12770	85 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 DPS 160 A 56 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.

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.

EPAMOULD DPS 80 A is a high performance polyester based thermoplastic polyurethane, with excellent mechanical properties and resistance to hydrolysis. EPAMOULD DPS 80 A is particularly suitable for injection moulding of engineered parts and sport footwear soles.

Typical properties

Density	ISO 1183	1.18 Kg/dm ³
Hardness	ISO 868	81 Shore A
Tensile strength	EN 12803	43 MPa
Elongation at break	EN 12803	580 %
Tear strength	ISO 34	90 KN/m
Abrasion resistance	EN 12770	30 mm ³
Compression set @ 23°C	ISO 815	29 %
Compression set @ 70°C	ISO 815	42 %
Glass transition temperature (Tg)*	DMA	- 40 °C

* (Maximum of Loss modulus curve in *Dynamic Mechanical Analysis*)

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 DPS 80 A is supplied in 25 kg aluminium bags. Depending on actual transport conditions pallets can be composed by 35 or 40 bags (875 or 1000 Kg). Epamould TPUs may be stored for 12 months from the date of shipment, sealed in the original package.

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