

**EPAMOULD 292A81 WT F40** is a white pigmented thermoplastic polyurethane based on saturated polyesters with improved hydrolysis resistance, excellent physical and mechanical properties, high crystallization rate and very good resistance to abrasion, oil and grease. We recommend Epamould 292A81 WT F40 for moulding technical articles and for the extrusion of tooth belts.

### **Typical properties**

Density	ISO 1183	1,21 Kg/dm <sup>3</sup>
Hardness	ISO 868	92 Shore A
Tensile strength	EN 12803	52 MPa
Elongation at break	EN 12803	500 %
Tear strength	ISO 34	125 KN/m
Abrasion resistance	EN 12770	35 mm <sup>3</sup>

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 base. Full-scale testing and end product performance are full responsibility of the user.

### **Packaging and storage**

EPAMOULD 292A81 WT F40 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 TPU may be stored for 12 months from the date of shipment, sealed in the original package.

### Material preparation

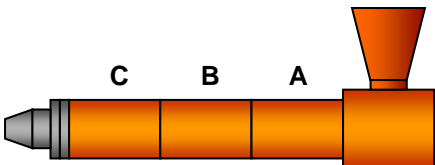
To ensure trouble free processing and high-quality injection moulded parts it is preferable to dry EPAMOULD 292A81 WT F40 before use. The recommended drying conditions are 3 hours at 95 – 100 °C in a desiccant dryer.

### Equipment

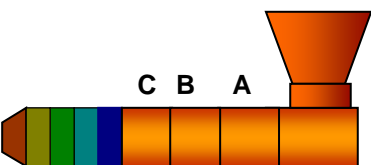
Standard injection moulding machines with general purpose screws of 40 to 60 mm diameter and an L/D ratio of 20 : 1 to 30 : 1 are normally suitable for the injection moulding of EPAMOULD 292A81 WT F40.

Standard extrusion 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 processing of [EPAMOULD 292A81 WT F40](#).

### Recommended injection moulding parameters

INJECTION TEMPERATURES			
	A ZONE	°C	195 – 215
	B ZONE	°C	200 – 220
	C ZONE	°C	195 – 215
	NOZZLE	°C	190 - 210

### Recommended extrusion parameters

TEMPERATURE DI ESTRUSIONE			
	Hopper	°C	185 – 200
	Barrel A	°C	190 – 205
	Barrel B	°C	195 – 210
	Barrel C	°C	200 – 215
	<b>Breaker plate</b>	°C	200 – 215
	<b>Die</b>	°C	200 – 215
	<b>Die</b>	°C	200 – 215
	<b>Die</b>	°C	200 – 215
	<b>Die</b>	°C	200 - 215

## **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 spa.

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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