

## PX 205

Vacuum Casting polyurethane for prototypes

### Applications

Casting for production of transparent prototype parts and mock-ups having mechanical properties close to those of thermoplastics such as polypropylene or PEHD.

### Properties

- ▶ Very good impact resistance
- ▶ Quick hardening
- ▶ Thermoplastic aspect
- ▶ Easy processing

#### MECHANICAL PROPERTIES AT 23°C

Hardness	ISO 868-85	Shore D1	70
Flexural modulus of elasticity	ISO 178-93	MPa	500
Flexural strength	ISO 178-93	MPa	30
Tensile modulus of elasticity MPa	ISO 527-96	MPa	530
Tensile strength MPa	ISO 527-96	MPa	25
Elongation at break in tension	ISO 527-96	%	100
Charpy impact strength	ISO 179/2D-94	kJ/m <sup>2</sup>	-

#### THERMAL AND SPECIFIC PROPERTIES\*

Glass transition temperature (Tg)	TMA METTLER	°C	90 – 100
Heat deflection temperature (HDT)	ISO 75 Ae-93	°C	55
Maximal casting thickness		mm	5
Linear shrinkage (thickness 3 mm / length 250 mm)		‰	7
Time before demoulding at 70°C		min.	60

\*Average values obtained on standardised specimens/Hardening 1 hr at 70°C + 16 hrs at 80°C

