

PX 205

(Matrix PU 205)

Applications

Casting for production of translucent 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 ²	-
THERMAL AND SPECIFIC PROPERTIES*			
Glass transition temperature (T _g)	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)	-	% ₀₀	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