

TECHNICAL DATA SHEET

of Nylon equivalent Polyurethane

Vacuum Casting polyurethane system
High Modulus system, high heat resistance

Main Features

Very rigid (3000 MPa Flex.Modulus)

Rapid & Easy demould

Easily pigmentable

Excellent thermal resistance

Product Data

	A	B	MIXTURE
Material	polyol	Isocyanate	
Appearance	Opaque liquid	Clear liquid	Opaque liquid
Density @ 25°C	1.03 g/ml	1.15 g/ml	1.08 g/ml
Viscosity @ 45°C	350 mPa.s	80-90 mPa.s	180 mPa.s
Pot life (110 g) @ 40°C			3 minutes
Demould time @ 65°C			20-40 minutes
Maximum casting thickness			15 mm

Cured Properties

Property	Cured 45 mins @ 70°C + 16 hrs @ 70°C
Shore hardness (D)	80-85
Linear Shrinkage (500 x 20 x 5 mm)	0.29%
Tensile Strength ISO 527-2:1993	80-85 MPa
Elongation @ break ISO 527-2:1993	10-11%
Flexural Strength ISO 178:1993	120-125 MPa
Flexural Modulus ISO 178:1993	2900-3100 MPa
Glass Transition (Tg) (DSC)	100°C