

TECHNICAL DATA SHEET

of TRANSPARENT EQUIVALENT POLYURETHANE

Vacuum Casting polyurethane system
Water Clear, U.V Stable system

This is vacuum casting polyurethane which is designed to be used in gravity vacuum casting machines. The cured material has excellent mechanical properties that simulate thermoplastics such as polycarbonate, shock resistant PMMA and ABS.

Main Features

Exceptional Clarity ***Low viscosity***

Extremely rigid ***UV stable***

Product Data

	A	B	MIXTURE
Material	BlueishClear polyol	Isocyanate	
Appearance	Clear liquid	Clear liquid	Clear liquid
Density @ 25°C	0.99 g/ml	1.07 g/ml	1.06 g/ml
Viscosity @ 25°C	400-500 mPa.s	20-30 mPa.s	100-120 mPa.s
Pot life (110 g) @ 22°C			10-11 minutes
Demould time @ 65°C			60-90 minutes
Maximum casting thickness			40 mm

Cured Properties

Property	Cured 45 mins @ 70°C + 7 days @ Room Temperature
Shore hardness (D)	80-85
Linear Shrinkage (500 x 20 x 5 mm)	0.26%
Tensile Strength ISO 527-2:1993	52-56 MPa
Elongation @ break ISO 527-2:1993	20-34%
Flexural Strength ISO 178:1993	85-90 MPa
Flexural Modulus ISO 178:1993	2250-2300 MPa
Refractive Index	1.47
Glass Transition (Tg) (DSC)	80°C
