

Alchemix VC 3351

(Matrix PU 3351)

Applications

Alchemix VC 3351 is a two component UV stable, water clear vacuum casting system designed specifically for use in gravity vacuum casting machines. It has excellent mechanical properties and can be used to simulate thermoplastics such polycarbonate, shock resistant PMMA and ABS.

Properties

- ▶ Optically clear
- ▶ UV stable
- ▶ Low viscosity
- ▶ Easily pigmented

PHYSICAL PROPERTIES			
Properties	Standard	Units	Result (3hr 80°C Post Cure)
Hardness	ISO 868	Shore D	75-80
Flexural modulus	ISO 178	MPa	2150-2450
Flexural strength	ISO 178	MPa	95-100
Tensile modulus	ISO 527	MPa	1500-1800
Tensile strength	ISO 527	MPa	60-64
Elongation at break	ISO 527	%	4.5-5.5
Linear shrinkage	500 x 50 x 5 mm	%	TBC
TEMPERATURE RESISTANCE			
Cure schedule	Standard	Units	Glass Transition Temperature (T _g)
Vacuum Cast Cure (60 minutes at 70°C)	DMA	°C	51-55
3 hours at 80°C	DMA	°C	70-74
16 hours at 100°C	DMA	°C	86-90