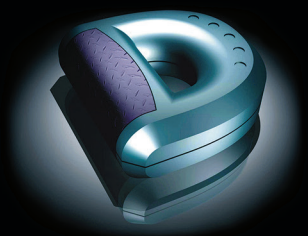
CLEAR (VC 3351)

Two Part Vacuum Casting System Water Clear, UV Stable.



Drumlord Limited
Prototyping Technologies

VC 3351 IS A TWO COMPONENT UV STABLE, WATER CLEAR VACUUM CASTING SYSTEM DESIGNED SPECIFICALLY FOR USE IN GRAVITY VACUUM CASTING MACHINES.

VC 3351 has excellent mechanical properties and can be used to simulate thermoplastics such polycarbonate, shock resistant PMMA and ABS.

PROPERTIES:
- Optically clear
- UV stable
- Easily pigmented

APPLICATIONS:
- Lenses & screens
- Production parts
- Fluid dynamics
- Light pipes

PRODUCT DATA

PROPERTY	UNITS	MIX
Appearance	-	Clear liquid
Density (25°C)	g/cm^3	1.16 - 1.21

PHYSICAL PROPERTIES

PROPERTY	STANDARD	UNITS	RESULT - (3HR 80°C POST CURE)
Hardness	BS EN ISO 868	Shore D	75 - 80
Linear Shrinkage	500 x 50 x 5 mm	%	TBC
Tensile Strength	BS EN ISO 527	MPa	60 - 64
Elongation at Break	BS EN ISO 527	%	4.5 - 5.5
Tensile Modulus	BS EN ISO 527	MPa	1500 - 1800
Flexural Strength	BS EN ISO 178	MPa	95 - 100
Flexural Modulus	BS EN ISO 178	MPa	2150 - 2450

TEMPERATURE RESISTANCE

CURE SCHEDULE	STANDARD	UNITS	GLASS TRANSITION TEMPERATURE (TG)
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

The information in this data sheet, as supplied by the material manufacturers, is provided for general guidance only, in good faith and without warranty. The performance characteristics may vary depending on the application, operating conditions or other materials in combination and it is the responsibility of the customer to determine the suitability of the product for its end use.

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