

# Watershed

USP Grade VI & ISO 13485 Approved  
water-clear, water-resistant resin.



## Applications

- Medical Models
- Packaging
- Water flow analysis
- RTV Patterns
- Durable Concept Models
- Wind Tunnel Testing
- Quick Cast Patterns
- Lenses



## Physical Properties

Colour	Water Clear
Type	ABS like resin

## Mechanical Properties

		TEST/ISO
Flexural Strength (MPa)	<b>63.1 – 74.2</b>	ATSM D790
Flexural Modulus (MPa)	<b>2,040 – 2,370</b>	
Tensile Strength (MPa)	<b>47.1 – 53.6</b>	ATSM D638
Tensile Modulus (MPa)	<b>2,650 – 2,880</b>	
Elongation Break (%)	<b>11 – 20</b>	
Impact Strength (J/m)	<b>0.2 – 0.3</b>	ATSM D256
Water Absorption (%)	<b>35</b>	ATSM D570 -98

## Thermal & Specific Properties

Glass Transition Temperature Tg (°C)	<b>39 – 46</b>	E1545 - 00
Heat Deflection Temperature (°C)		
@ 0.46 MPA	<b>45.9 – 54.5</b>	ATSM D648
@ 1.81 MPA	<b>49 – 49.7</b>	
Co-efficient of Thermal Expansion (µ/m°C)		
TMA (<Tg, -40 – 0°C)	<b>66 – 67</b>	ATSM E831-93
TMA (<Tg, 0 – 50°C)	<b>90 – 96</b>	
TMA (<Tg, 50 – 100°C)	<b>170 – 189</b>	
TMA (<Tg, 100 – 100°C)	<b>185 – 189</b>	
Dielectric Constant		
60Hz	<b>3.9 – 4.1</b>	ATSM D150 -98
1KHz	<b>3.7 – 3.9</b>	
1MHz	<b>3.4 – 3.5</b>	
Dielectric Strength (kV/mm)	<b>16.3</b>	ASTM D149 -97A
Index of Radiation	<b>1.512 – 1.515</b>	ASRM D542

Call: 028 9070 6940

Email: [sales@laserproto.com](mailto:sales@laserproto.com)

Web: [www.laserproto.com](http://www.laserproto.com)

[Click here to request a quote](#)

Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. Performance characteristics of these products may vary according to product application, operating conditions or with end use.

Laser Prototypes Ltd makes no warranties of any type, express or implied, with respect to any of the goods or services supplied. This includes but is not limited to any warranty of fitness for a particular purpose or of properties or of suitability for a specific application. Data are subject to change without notice as part of our continuous development and improvement processes.