

Magna W120: Heat Resistant

The primary characteristic of Magna W120 is its strong resistance to heat (up to 90 degrees Celsius). It is also a highly robust material resistant to a wide range of substances, including solvents and oil. Excellent thermal performance makes Magna W120 suitable for a wide range of applications, including light fittings and in the internals of cars. Its strong resistance to corrosion also make it ideal for orthodontics.

Advantages

Resistant to heat
Excellent detail resolution
Easy to process and finish

Applications

Automotive
Tooling
Wind tunnel testing
Temperature testing
Casings for electronics
Orthodontics
Light fittings



Magna W120 TECHNICAL DATA SHEET

Liquid Properties			Optical Properties		
Appearance	White		Ec	7.5 mJ/cm ²	[critical exposure]
Viscosity	430~530 cps	@ 28°C (82.4°F)	Dp	0.152	[slope of cure-depth vs. ln(E) curve]
Density	1.13 g/cm ³	@ 25°C (77°F)			

Mechanical Properties (90 Minutes UV Postcure)		
ASTM Method	Property Description	Value
ASTM D 638	Tensile Modulus	2840-3112 MPa
ASTM D 638	Tensile Strength at Break	58-66 MPa
ASTM D 638	Elongation at Break	4-8%
ASTM D 648 @66PSI	Heat Deflection Temperature	75-90°C / 184-266°C†
ASTM D 790	Flexural Strength	60-80 Mpa
ASTM D 790	Flexural Modulus	2678-3188 Mpa
ASTM D 256	Izod Impact (Notched)	22~32 J/m
ASTM D 2240	Hardness Shore D	86-90

† After 2 hour 160°C thermal Postcure (note- applies to Magna 120)
These values may vary and depend on individual machine processing and post-curing practices.

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Photoreactive Resin

Product Name :
SKU# :
Weight : 10KGS
Date of Manufacturing :
LOT# : 000716ZLAR
Sealed and Stored in Dry Place at Room Temperature

Warning



1. Skin can be irritated, skin should be taken care of after when handling
2. Touching the resin can cause irritation of the skin
3. Contact with eyes is likely to cause severe irritation
4. Accidental injection is extremely serious. If resin comes into contact with hands, do not touch the mouth or face
5. Liquid resin is extremely harmful to aquatic life, causing long-term damage
6. Avoid breathing in any dust / smoke/particles/aerosol originating from the resin
7. Wash hands thoroughly after operation
8. Contaminated clothing should not be worn outside the working area. Always steam correctly and do not reuse. Quaternary salt cause significant environmental damage
9. Always wear protective gloves, goggles and bonnet when operating
10. If swallowed seek immediate medical assistance
11. If resin comes into contact with skin, wash thoroughly with soap, preferably in a shower
12. If there are signs of irritation or a rash seek medical assistance
13. If there are signs of irritation, the eyes wash with water for several minutes. After an initial period of washing, those wearing contact lenses should carefully take them out and wash the eyes with the lenses removed
14. If the eyes are still irritated after washing seek medical assistance
15. Waste resin requires treatment from an approved waste treatment plant



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