

Clara A: Clear

Clara A is a clear plastic with excellent resistance against humidity and moisture. Its key property is transparency, which sees it used in a range of applications including car headlights. The main reason why customers chose Clara A is for its transparency, but it has other advantageous properties too. It is easy to recoat and cleaning quick and easy.

Advantages

- Transparent, excellent optical clarity
- Resistant to humidity and moisture
- Easy to process and finish
- Simulates acrylic effect

Applications

- Master patterns
- Concepts and prototypes
- Fluid flow analysis
- Optical testing
- Car headlights



Clara A TECHNICAL DATA SHEET

Liquid Properties			Optical Properties		
Appearance	Clear (Customizable)		Ec	7.8-8.3 mJ/cm ²	[critical exposure]
Viscosity	200~300 cps	@ 25°C (77°F)	Dp	0.17	[slope of cure-depth vs. ln(E) curve]
Density	1.10 g/cm ³	@ 25°C (77°F)			

Mechanical Properties (90 Minutes UV Postcure)		
ASTM Method	Property Description	Value
ASTM D 638	Tensile Modulus	2540-2720 MPa
ASTM D 638	Tensile Strength at Break	45-53 MPa
ASTM D 638	Elongation at Break	7-10%
ASTM D 648 @66PSI	Heat Deflection Temperature	50-55°C
ASTM D 790	Flexural Strength	60-75 Mpa
ASTM D 790	Flexural Modulus	2080-2350 Mpa
ASTM D 256	Izod Impact (Notched)	20-30 J/m
ASTM D 2240	Hardness Shore D	81-85

*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# : 000718ZLAR
Sealed and Stored in Dry Place at Room Temperature

Warning



1. Skin can be irritated, care should be taken at all times when handling
2. Touching the resin can cause irritation of the skin
3. Contact with eyes is likely to cause severe irritation
4. Accidental ingestion is extremely unlikely. 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/resin vapors from the resin
7. Wash hands thoroughly after operation
8. Contaminated clothing should not be worn outside the working area. Always store correctly and do not dump. Dumping will cause significant environmental damage
9. Always wear protective gloves, goggles and balaclava 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 occurs contact with the eyes, wash with water for several minutes. After an initial period of washing, clean contact lenses carefully
14. Take them out and wash the eyes with the tissues provided
15. If the eyes are still irritated after washing seek medical assistance
16. Waste resin requires treatment from an approved waste treatment plant



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