

MATERIAL

Irix Digital CA

Digital manufacturing of eyeglass frames and temples: durability and aesthetics of cellulose acetate.

Designed and made by DWS



Irix Series

The Irix series includes all aesthetically high-performing materials suitable for direct printing of jewelry models, fashion accessories and eyewear.

PRODUCT DESCRIPTION

Irix Digital CA is a photosensitive material that can be used on DWS stereolithographic 3D printers. It reproduces the aesthetic properties typical of cellulose acetate used mainly in the eyewear industry. It is suitable for the manufacturing of frames and temples for eyewear industry. Models made with Irix Digital CA are durable and smooth. It comes in the basic colour, semi-opaque white, and the pigmented material can be coloured on request.



Smooth surfaces



Good level of transparency



High resolution and surface quality



Perfect details

Industries

Eyewear

Jewelry

Fashion Accessories

Technical specs of the liquid material

Viscosity	1000 ~ 2000 mPa•s at 25°C
Density	1,10 g/cm ³
Environmental values for use	22°C - 27°C - max, RH 40% - 60%
Appearance / Colour	Liquid / Semi-opaque white

Technical specs after UV curing

Irix Digital CA	Technical Data
Elongation at Break (%)	10
Shore Hardness (Shore D)	87
Flexural Strength (MPa)	106
Flexural Modulus (MPa)	2410
Tensile Strength (MPa)	64
Tensile Modulus (MPa)	2370
HDT @0,46MPa	69
Notched IZOD (J/m)	57

Technical specifications are subject to change without notice. TDS_DIGITAL-CA_EN / Rev.00 / 02-2025