

MATERIAL

Invicta AB001

Aesthetic prototypes with an extra-smooth surface.

Formulated and manufactured by DWS



Invicta Series

Invicta serie includes all those rigid and tough materials that must respond to high performance in both aesthetic and mechanical terms.

PRODUCT DESCRIPTION

Invicta AB001 is a material developed to produce aesthetic, concept-design prototypes with extra-smooth surfaces. In terms of tensile strength, elastic modulus, surface hardness and resistance to substances such as inorganic salts, most alcohols and hydrocarbons, it is similar to conventional ABS. It is also available in grey (INVICTA AB002).



Extra-smooth surfaces



Surface quality



Perfect details



Respect of dimension



TPO free version: **Invicta AB004**

Industry

Eyewear

Fashion

Furniture

University

General
Manufacturing

Available colors

Name

Invicta AB001 White >> TPO free version Invicta AB004

Invicta AB002 Grey >> TPO free version Invicta AB005

Technical specs of the liquid material

Viscosity	650 ~ 950 mPa•s at 25°C
Density	1,04 g/cm ³
Environmental values for use	22°C - 27°C - max, RH 40% - 60%

Technical data after UV curing

Invicta AB001	Technical Data
Elongation at Break (%)	3 ~ 5
Shore Hardness (Shore D)	83 ~ 87
Flexural Strength (MPa)	50 ~ 90
Flexural Modulus (MPa)	1420 ~ 2020
Tensile Strength (MPa)	25 ~ 45
Tensile Modulus (MPa)	1200 ~ 1950
HDT@0,46MPa	47 ~ 51

Technical specifications are subject to change without notice. TDS_EN_AB001 / Rev.01 / 02-2026