

Clear ABS-Like Resin - Technical Data

Yellow ABS Like Resin - Technical Data

Advantages:

- High strength and strong toughness
- Accurate and dimensionally stable
- Excellent temperature resistance
- Good moisture resistance

Ideal Applications:

- Functional model needing toughness
- Conceptual model
- Low volume production models
- Automotive, aerospace, architecture, electronic applications

Optical & Liquid Properties:

- Appearance: Light Yellow
- Viscosity: 355-455 cps @ 28°C
- Density: 1.11-1.14 g/cm³ @ 25°C
- Building layer thickness: 0.05-0.15 mm
- Penetration depth (Dp): 0.135-0.155 mm
- Critical exposure (Ec): 9-12 mJ/cm²

Mechanical Properties (After UV Post-Curing):

Measurement	Test Method	Value
Hardness, Shore D	ASTM D 2240	76-82
Flexural modulus (MPa)	ASTM D 790	2,650-2,760
Flexural strength (MPa)	ASTM D 790	65-74
Tensile modulus (MPa)	ASTM D 638	2,160-2,360
Tensile strength (MPa)	ASTM D 638	25-30
Elongation at break (%)	ASTM D 638	12-20%
Impact strength, notched Izod (J/m)	ASTM D 256	58-70

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Heat deflection temperature (°C)	ASTM D 648 @66PSI	58-68
Glass transition (Tg, °C)	DMA, E" peak	55-70
Density (g/cm ³)	-	1.14-1.16