

## MATERIAL CARD 03

# ASA

Acrylonitrile Styrene Acrylate (ASA) is a thermoplastic used in 3D printing, prized for its resistance to UV radiation, weathering, and aging. It's ideal for outdoor applications, retaining colour and impact resistance under prolonged exposure to the elements.



## Benefits

ASA offers excellent UV stability, superior impact strength, and good chemical resistance. It's a prime choice for applications with expected UV exposure, reliably maintaining both colour and mechanical properties over time.



## Physical & Mechanical Properties

Property	Typical Value
Tg (°C)	104
Melt Temp (°C)	235 - 260
Density (kg/m <sup>3</sup> )	1080
Yield strength (MPa)	33
Bio-Compatibility	No

	Good	Average	Poor
Chemical Resistance		■	
UV Stability	■		
Reusability	■		
Impact Resistance	■		
Fire Performance		■	

## Typical Applications

- Prototyping (Concept models, fast prototyping)
- Tooling (Metal part casting)

## Industries

- Aerospace
- Defence
- Space
- Rail
- Marine
- Nuclear
- Automotive

## Colour Options

- Black
- White
- Blue
- Red
- Yellow
- Nectarine
- Ivory
- Green
- Grey
- Natural

To discuss your next additive manufacturing challenge, call our experts on **03330 150 563**

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