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Innovating Tomorrow's Materials

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Technical Data Sheet: Performance ASA

Description: A premium, engineering-grade ASA designed for exceptional outdoor durability, dimensional stability, and reliable 3D-printing performance. Enhanced with mineral reinforcement for improved flatness, reduced warp, and a refined matte finish, Performance ASA delivers strong mechanical properties, smooth extrusion, and excellent weather resistance (UV-Stabilized) suitable for demanding applications in automotive, functional prototyping, and end-use parts.

Physical Properties	Standard	Units	Recorded Value
Density	ASTM D792	g/mL	1.13

Mechanical Properties	Standard	Unit	Recorded Value
Tensile Strength (Yield)	ASTM D638	MPa	47-48
Elongation at break	ASTM D638	%	10
Flexural Strength	ASTM D790	MPa	73
Flexural Modulus	ASTM D790	MPa	2850
IZOD Impact, charpy	ASTM D256	J/m	135

Thermal Properties	Standard	Unit	Recorded Value
Glass Transition Temp. Tg	DSC	°C	112
Heat Deflection Temperature at 1.8 MPa	ASTM D648	°C	103

Printer Settings:
Nozzle: 265–285 °C
Bed: 110 °C
Chamber: 60–70 °C (enclosed printer strongly recommended)
Cooling fan: 0% (≤5% only for bridges)

Notice:
Typical values, not specifications. Performance varies with printer, part geometry, and settings. Users must verify fitness for purpose and comply with regulations. Matter Industries Inc. provides no warranties and assumes no liability.