

ABS CNC

Acrylonitrile Butadiene Styrene

ABS (Acrylonitrile Butadiene Styrene) is a thermoplastic polymer widely used in numerous industrial and consumer applications. Due to its unique combination of properties, ABS offers excellent impact resistance, good rigidity and durability. This material is commonly used in the production of automotive components, toys, household appliances and electronic products.



Material properties

Density	ISO 1183	1,05	g/cm ³
Water absorption at saturation	ISO 62	0,2	%
Tensile strength	ISO 527	40	MPa
Elongation at break	ISO 527	5	%
Elastic modulus	ISO 527	2600	MPa
Resilience	ISO 179	25	kJ/m ²
Hardness	ISO 2039-2	114 M	Rockwell
Melting temperature	ISO 11357	235	°C
Flammability	UL94	HB	
Thermal conductivity (20°C)	DIN 52612	0,2	W/mK
Volumic electrical resistivity	IEC 60093	10 ¹⁵	Ω*m

Maximum dimensions

500x500x50 mm (19.7x19.7x2 in)

Tolerances

ISO 2768-1 classe media (m)

Applications

Commonly used in the production of automotive components, toys, household appliances and electronic products

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