



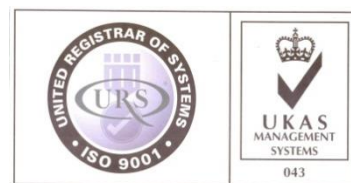
**MCP ENGINEERING PLASTICS LIMITED**

Unit 27, Kingstons Commercial Centre  
Downhall Road  
Matching Green  
Essex, CM17 0RB

Phone: 01279 739399

Fax: 01279 730919

Email: sales@mcpengeering.co.uk



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**ABS (Acrylnitrile-Butadiene-Styrene)**

**Material Specification  
(Typical Properties)**

Physical

Property	Method	Units	Specification
Specific Gravity	---	g/cm <sup>3</sup>	1.04
Water Absorption	DIN EN ISO 62	%	0.07 / 0.2

Mechanical

Property	Method	Units	Specification
Modulus of elasticity (tensile test)	DIN EN ISO 527-2	MPa	1700
Tensile strength	DIN EN ISO 527-2	MPa	32
Tensile strength at yield	DIN EN ISO 527-2	MPa	32
Elongation at yield	DIN EN ISO 527-2	%	3
Elongation at break	DIN EN ISO 527-2	%	49
Flexural strength	DIN EN ISO 178	MPa	49
Modulus of elasticity (flexural test)	DIN EN ISO 178	MPa	1600
Compression strength	EN ISO 604	MPa	15 / 26
Compression modulus	DIN EN ISO 527-2	MPa	1400
Impact strength (Charpy)	DIN EN ISO 179-1eU	kJ/m <sup>2</sup>	n.b.
Notched impact strength (Charpy)	DIN EN ISO 179-1eA	kJ/m <sup>2</sup>	34
Ball indentation hardness	ISO 2039-1	MPa	74

Electrical

Property	Method	Units	Specification
Specific surface resistance	DIN IEC 60093	Ω	10 <sup>14</sup>
Specific volume resistance	DIN IEC 60093	Ω*cm	10 <sup>14</sup>

Thermal

Property	Method	Units	Specification
Glass transition temperature	DIN 53765	°C	104
Service temperature	DSC	°C	100
Service temperature	DSC	°C	75

Disclaimer. These figures are typical values for the material and do not represent a product specification. Properties will vary depending on source of raw material, method of processing, physical form of product, direction of measurement etc.