



MCP ENGINEERING PLASTICS LIMITED

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**Fluteck S200
 Compression Moulded Polyphenylsulfone**

**Material Specification
 (Typical Properties)**

Physical

Property	Method	Units	Specification
Specific Gravity	ASTM D792	g/cm ³	1.29 - 1.30
Water Absorption	ISO 62 (24hr immersion)	%	---
Linear mould shrinkage	ASTM D 955	Cm/cm	0.70

Mechanical

Property	Method	Units	Specification
Elongation at Break	ASTM D 638	%	40 – 80
Tensile strength at break	ASTM D 638	MPa	68 – 72
Tensile modulus	ASTM D 638	GPa	2.25 – 2.30
IZOD impact strength	ASTM D 256	J/m	No break
Hardness Shore	ASTM D 2240	Shore D	---
Hardness Rockwell	---	Rockwell M	---
Ball Hardness	ISO 2039-1 N358	N/mm ²	---

Electrical

Property	Method	Units	Specification
Volume resistivity	ASTM D 257	Ohm cm	9 x 10 ¹⁵
Surface resistance	IEC 60093	Ohm	---
Dielectric Strength	ASTM D 149	KV/mm	15
Relative permittivity	IEC 60250	1MHz	---

Thermal

Property	Method	Units	Specification
Melting point	DSC	°C	330 – 335
Specific heat capacity	DSC	J/g	---
Thermal conductivity	DSC	W/mK	---
Maximum service temperature, Air	Internal Test	°C	200 – 205
HDT	Internal Test	°C	207

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.