

# Fitex PolyPhenyleneSulfide (PPS)



Grade: RS-1340S

Recycled grade

Colour: Black

GF 40%, Impact modification

Properties	Standards	Test conditions	Units	Typical values
<b>Mechanical Properties</b>				
Izod impact strength	ASTM D256	23°C V-notched 1/8"	J/m	88
			kgf·cm/cm	9
			ft·lbf/in	2
Tensile strength at break	ASTM D638	---	MPa	120
			kgf/cm <sup>2</sup>	1220
			lbf/in <sup>2</sup>	17300
Tensile elongation at break	ASTM D638	---	%	4
Flexural strength	ASTM D790	---	MPa	170
			kgf/cm <sup>2</sup>	1760
			lbf/in <sup>2</sup>	24900
Flexural modulus	ASTM D790	---	MPa	9000
			kgf/cm <sup>2</sup>	92000
			lbf/in <sup>2</sup>	1304000
<b>Thermal Properties</b>				
Flammability	UL94	1.5mm	—	V-0 (Equiv.)
Heat deflection temperature	ASTM D648	18.6 kgf/cm <sup>2</sup>	°C	260
			°F	500
<b>Electrical Properties</b>				
Dielectric breakdown strength	ASTM D149	1.6mm	kV/mm	16
Dielectrical constant	ASTM D150	10 <sup>6</sup> Hz	---	4
Dissipation factor	ASTM D150	10 <sup>6</sup> Hz	---	—
Arc resistance	ASTM D495	---	Sec.	—
Volume resistivity	ASTM D257	---	Ω·cm	10 <sup>16</sup>
<b>Optical Properties</b>				
Light transmittance	ASTM D1003	3 mm	%	—
Light refractive	ASTM D542	---	---	—
Haze	ASTM D1003	3 mm	%	—
<b>Other Properties</b>				
Specific gravity	ASTM D792	---	---	1.62
Water absorption	ASTM D570	24 hrs at 23°C water immersion	%	0.02
Mould shrinkage	ASTM D955	MD	%	0.25-0.35
		TD		0.75-0.85

To our best knowledge, the values contained herein are typical of uncoloured PPS and given in good faith. They may be affected by other additives, the design of a mould/die, moulding techniques applied, the size and shape of a moulded article. In view of these factors, the properties do not relieve customers from carrying out their own investigations and tests. It is entirely the customer's responsibility to determine the suitability of material and grade used for their intended application. No warranty, express or implied is made nor is liability accepted in connection with any of the information provided. We reserve the right to make additions, deletions, or modifications to the information at any time without prior notification. Kotec Corporation (18.2.2023)