

Fitex PolyPhenyleneSulfide (PPS)



Grade: RS-1340

Colour: Black

Recycled grade
GF 40% reinforced

Properties	Standards	Test conditions	Units	Typical values
Mechanical Properties				
Izod impact strength	ASTM D256	23°C V-notched 1/8"	J/m	61
			kgf·cm/cm	6.2
			ft·lbf/in	1
Tensile strength at break	ASTM D638	---	MPa	125
			kgf/cm ²	1260
			lbf/in ²	17800
Tensile elongation at break	ASTM D638	---	%	3
Flexural strength	ASTM D790	---	MPa	175
			kgf/cm ²	1800
			lbf/in ²	25500
Flexural modulus	ASTM D790	---	MPa	9215
			kgf/cm ²	94000
			lbf/in ²	1332000
Thermal Properties				
Flammability	UL94	0.75mm	---	V-0
Heat deflection temperature	ASTM D648	18.6 kgf/cm ²	°C	>260
			°F	>500
Electrical Properties				
Dielectric breakdown strength	ASTM D149	1.6mm	kV/mm	16
Dielectrical constant	ASTM D150	10 ⁶ Hz	---	4
Dissipation factor	ASTM D150	10 ⁶ Hz	---	—
Arc resistance	ASTM D495	---	Sec.	—
Volume resistivity	ASTM D257	---	Ω·cm	10 ¹⁶
Optical Properties				
Light transmittance	ASTM D1003	3 mm	%	—
Light refractive	ASTM D542	---	---	—
Haze	ASTM D1003	3 mm	%	—
Other Properties				
Specific gravity	ASTM D792	---	---	1.66
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)