

## Properties

### B5726

Glass fiber-reinforced flame retardant PBT/ABS resin (GF30%, UL94 V-0)

Heat resistance

Properties	Test methods	Test conditions	Units	
Mold shrinkage	ASTM D955	-	%	0.3-0.5
Tensile strength	ISO 527	-	MPa	120
Flexural strength	ISO 178	-	MPa	185
Flexural modulus	ISO 178	-	MPa	9700
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m <sup>2</sup>	8
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	80
Deflection temperature under load	ISO 75	1.80MPa	deg C	190
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	200
Deflection temperature under load	ISO 75	0.45MPa	deg C	220
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	220
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	2
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	10
Flammability	UL94	-	-	V-0/1.5mm 5VA/2.0mm
Dielectric strength	ASTM D149	1.5mm	MV/m	29
Arc resistance	ASTM D495	3.0mm	sec(PLC)	-(6)
Hot wire ignition	UL746A	1.5mm	sec(PLC)	27(3)
High ampere arc ignition	UL746A	1.5mm	(PLC)	25(3)
High voltage tracking rate	UL746A	3.0mm	mm/min(PLC)	87(3)
Comparative tracking index	IEC 112	3.0mm	V(PLC)	225(3)
Water absorption	ISO 62	-	%	0.15
Density	ISO 1183	-	g/cm <sup>3</sup>	1.55

Note

- Values are typical, not quality assured.
- UL recognition File No. of Daicel Polymer is E47773.

### Typical settings for processing

Preliminary drying	Barrel temperature(deg C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (deg C)
	Nozzle	Front	Middle	Back			
3-5hrs 80-120deg C	230-250	240-250	220-240	190-230	50-90	5-20	60-80