

## Properties

### B5526

Glass fiber-reinforced flame-retardant PBT/ABS resin (GF30%)

Standard

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Daicel method	-	%	0.2-0.4
Tensile strength	ISO 527	-	MPa	110
Flexural strength	ISO 178	-	MPa	160
Flexural modulus	ISO 178	-	MPa	9200
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	140
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	155
Deflection temperature under load	ISO 75	0.45MPa	deg C	210
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	210
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
Dielectric strength	ASTM D149	1.5mm	MV/m	30
Arc resistance	ASTM D495	3.0mm	sec(PLC)	69(6)
Hot wire ignition	UL746A	1.5mm	sec(PLC)	24(3)
				35(2)
High voltage tracking rate	UL746A	3.0mm	mm/min(PLC)	187(4)
Comparative tracking index	IEC 112	3.0mm	V(PLC)	210(3)
Water absorption	ISO 62	-	%	0.15
Density	ISO 1183	-	g/cm <sup>3</sup>	1.50

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.
- UL recognition File No. is E47773.
- The colorant formulations are restricted for each UL certified color. Please contact us for more information.

### 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