

## Properties

### B2506

Glass fiber-reinforced PBT/ABS resin (GF30%, UL94 HB)

Standard

Properties	Test methods	Test conditions	Units	
Mold shrinkage	ASTM D955	-	%	0.2-0.4
Tensile strength	ISO 527	-	MPa	103
Flexural strength	ISO 178	-	MPa	150
Flexural modulus	ISO 178	-	MPa	8400
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m <sup>2</sup>	9
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	90
Deflection temperature under load	ISO 75	1.80MPa	deg C	140
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	150
Deflection temperature under load	ISO 75	0.45MPa	deg C	205
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	205
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	-	-	HB
Dielectric strength	ASTM D149	1.5mm	MV/m	35
Arc resistance	ASTM D495	3.0mm	sec(PLC)	85(6)
Hot wire ignition	UL746A	1.5mm	sec(PLC)	50(2)
High ampere arc ignition	UL746A	1.5mm	(PLC)	113(1)
High voltage tracking rate	UL746A	3.0mm	mm/min(PLC)	25(1)
Comparative tracking index	IEC 112	3.0mm	V(PLC)	600(0)
Water absorption	ISO 62	-	%	0.15
Density	ISO 1183	-	g/cm <sup>3</sup>	1.39

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