

## Properties

### B27B3M

Glass fiber-reinforced PBT/ABS resin (GF15%)

Good surface appearance

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Daicel method	-	%	0.4-0.6
Tensile strength	ISO 527	-	MPa	80
Flexural strength	ISO 178	-	MPa	115
Flexural modulus	ISO 178	-	MPa	5000
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m <sup>2</sup>	6
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	60
Deflection temperature under load	ISO 75	1.80MPa	deg C	155
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	180
Deflection temperature under load	ISO 75	0.45MPa	deg C	200
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	200
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	3
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	10
Flammability	UL94	-	-	HB
Water absorption	ISO 62	-	%	0.15
Density	ISO 1183	-	g/cm <sup>3</sup>	1.33

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	240-260	250-270	230-250	200-220	50-100	5-20	80-100