

## Properties

### GRSJ1

Glass fiber-reinforced SAN resin (GF10%)

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Daicel method	-	%	0.2-0.4
Tensile strength	ISO 527	-	MPa	88
Flexural strength	ISO 178	-	MPa	140
Flexural modulus	ISO 178	-	MPa	6000
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m <sup>2</sup>	4
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	40
Rockwell hardness	ISO 2039	-	-	M95
Deflection temperature under load	ISO 75	1.80MPa	deg C	100
Deflection temperature under load	ASTM D648	1.82MPa/12.7mm	deg C	109
Vicat softening temperature	ISO 306/B50	50N X 50deg C/h	deg C	103
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	4
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	7
Flammability	UL94	-	-	HB
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm <sup>3</sup>	1.14

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 80-85deg C	230-250	230-250	210-230	190-210	40-60	10-20	60-80