

## Properties

### S4100V

Flame-retardant PC/ABS resin

Standard

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Daicel method	-	%	0.4-0.6
Tensile strength	ISO 527	-	MPa	50
Flexural strength	ISO 178	-	MPa	79
Flexural modulus	ISO 178	-	MPa	2200
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m <sup>2</sup>	14
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	140
Deflection temperature under load	ISO 75	1.80MPa	deg C	99
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	103
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	8
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	-
Flammability	UL94	-	-	V-0/0.8mm 5VA/2.0mm
Hot wire ignition	UL746A	1.5mm	sec(PLC)	33(2)
High ampere arc ignition	UL746A	1.5mm	arcs(PLC)	150(0)
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm <sup>3</sup>	1.23

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			
4-5hrs 90-110deg C	220-250	230-250	220-240	200-230	50-100	5-20	60-80