

## Properties

### S3100

Flame retardant PC/ABS resin (UL94 V-0)

Standard

Properties	Test methods	Test conditions	Units	
Mold shrinkage	ASTM D955	-	%	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>	50
Notched Charpy impact strength	ISO 179/1eA	-30 deg C	kJ/m <sup>2</sup>	20
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	109
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-0/1.6mm
Volume resistivity	ASTM D257	-	ohm*m	10E14
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)	45(2)
High ampere arc ignition	UL746A	1.5mm	(PLC)	150(0)
High voltage tracking rate	UL746A	3.0mm	mm/min(PLC)	127(3)
Comparative tracking index	IEC 112	3.0mm	V(PLC)	400(1)
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm <sup>3</sup>	1.23

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