

# NOVALLOY S series

PC/ABS resin

Technical Information

TI-05386

## Properties

### S3100R

Flame-retardant PC/ABS resin  
Standard

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Our standard	-	%	0.4-0.6
Tensile strength	ISO 527	-	MPa	50
Flexural strength	ISO 178	-	MPa	80
Flexural modulus	ISO 178	-	MPa	2200
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m <sup>2</sup>	45
Deflection temperature under load	ISO 75	1.80MPa	deg C	100
Flammability	UL94	-	-	V-0/1.6mm
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