

# Novalloy-S S4100V

Polycarbonate + ABS

PlastxWorld Inc.

## Message:

Novalloy-S S4100V is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product. It can be processed by injection molding and is available in North America. Novalloy-S S4100V applications include electrical/electronic applications, engineering/industrial accessories, tools, optics/lenses and agriculture. Features include:

- flame retardant/rated flame
- Flame Retardant
- Good processability
- anti-warping
- Creep resistance

General Information			
UL YellowCard	E315545-100091184		
Additive	Flame retardancy		
Features	Good dimensional stability		
	Bending resistance		
	Good formability		
	Good creep resistance		
	Good liquidity		
	Heat resistance, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Power/other tools		
	Optical applications		
	Machine/mechanical parts		
	Agricultural application		
	Business equipment		
	Camera application		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/5.0 kg)	13	g/10 min	ISO 1133

Molding Shrinkage	0.40 - 0.60	%	ISO 294-4
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress (Yield)	51.0	MPa	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	82.0	MPa	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (23°C)	44	kJ/m <sup>2</sup>	ISO 180
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	114	°C	ISO 306/B50
<b>Flammability</b>	<b>Nominal Value</b>		<b>Test Method</b>
Flame Rating (2.00 mm)	V-0		UL 94

#### Additional Information

The value listed as Mold Shrinkage, ISO 294, was tested in accordance with ISO 2577.

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	87.8 - 110	°C
Drying Time	3.0 - 5.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	35 - 70	%
Rear Temperature	200 - 230	°C
Middle Temperature	220 - 240	°C
Front Temperature	230 - 250	°C
Nozzle Temperature	220 - 240	°C
Processing (Melt) Temp	241 - 260	°C
Mold Temperature	60.0 - 82.2	°C
Injection Pressure	48.3 - 96.5	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.345 - 1.38	MPa
Screw Speed	50 - 100	rpm
Clamp Tonnage	2.8 - 5.5	kN/cm <sup>2</sup>

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