

Novalloy-S S3100

Polycarbonate + ABS

PlastxWorld Inc.

Message:

Novalloy-S S3100 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) material. This product is available in the Asia-Pacific region. The main characteristics of Novalloy-S S3100 are: flame retardant/rated flame.

General Information			
UL YellowCard		E47773-239754	
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	79.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	20	kJ/m ²	ISO 179/1eA
23°C	50	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 6.40 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	109	°C	ASTM D648
1.8 MPa, not annealed	99.0	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength (1.50 mm)	35	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	85.0	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 3		UL 746
Comparative Tracking Index (3.00 mm)	400	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	150		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	127	mm/min	UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 3		UL 746

Hot-wire Ignition (HWI) (1.50 mm)	42	sec	UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 110	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	200 - 230	°C	
Middle Temperature	220 - 240	°C	
Front Temperature	230 - 250	°C	
Nozzle Temperature	220 - 250	°C	
Mold Temperature	60.0 - 80.0	°C	
Back Pressure	5.00 - 20.0	MPa	
Screw Speed	50 - 100	rpm	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

