

Novalloy-S S4100 (Type V)

Polycarbonate + ABS

Daicel Polymer Ltd.

Message:

Novalloy-S S4100 (Type V) is a Polycarbonate + ABS (PC+ABS) material. It is available in Asia Pacific. Primary attribute of Novalloy-S S4100 (Type V): Flame Rated.

General Information			
UL YellowCard	E47773-239759		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40 to 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 (23°C)	14	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, 6.40 mm	103	°C	ASTM D648
1.8 MPa, Unannealed	99.0	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	28	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	101	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 0		UL 746
Comparative Tracking Index (3.00 mm)	600	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	36.0		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 2		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	230	mm/min	UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 4		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	26	sec	UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
0.800 mm	V-1	
1.00 mm	V-0	
2.00 mm	5VA	
Injection	Nominal Value	Unit
Drying Temperature	90.0 to 110	°C
Drying Time	4.0 to 5.0	hr
Rear Temperature	200 to 230	°C
Middle Temperature	220 to 240	°C
Front Temperature	230 to 250	°C
Nozzle Temperature	220 to 250	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	5.00 to 20.0	MPa
Screw Speed	50 to 100	rpm

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