

Novalloy-S S4220 (Type V)

Polycarbonate + ABS

Daicel Polymer Ltd.

Message:

Novalloy-S S4220 (Type V) is a Polycarbonate + ABS (PC+ABS) material filled with 20% glass fiber. It is available in Asia Pacific. Primary attribute of Novalloy-S S4220 (Type V): Flame Rated.

General Information			
UL YellowCard	E47773-239760		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	78.0	MPa	ISO 527-2
Flexural Modulus	5700	MPa	ISO 178
Flexural Stress	124	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 3.20 mm)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	121	°C	ASTM D648
1.8 MPa, Unannealed	112	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	4.0E-5	cm/cm/°C	
Transverse	8.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	26	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	69.0	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 4		UL 746
Comparative Tracking Index (3.00 mm)	100	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	149		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	300	mm/min	UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 4		UL 746

Hot-wire Ignition (HWI) (1.50 mm)	150	sec	UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
2.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 120	°C	
Drying Time	4.0 to 5.0	hr	
Rear Temperature	200 to 240	°C	
Middle Temperature	220 to 250	°C	
Front Temperature	230 to 260	°C	
Nozzle Temperature	230 to 260	°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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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

