

Novalloy-S S5220

Polycarbonate + ABS

PlastxWorld Inc.

Message:

Novalloy-S S5220 is a polycarbonate + acrylonitrile butadiene styrene (PC + ABS) material, and its filler is 20% glass fiber reinforced material. This product is available in the Asia-Pacific region. The main characteristics of Novalloy-S S5220 are: flame retardant/rated flame.

General Information			
UL YellowCard	E47773-239764		
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	95.0	MPa	ISO 527-2
Flexural Modulus	6500	MPa	ISO 178
Flexural Stress	155	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, 6.40 mm)	60	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	134	°C	ASTM D648
1.8 MPa, not annealed	124	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	4.0E-5	cm/cm/°C	ISO 11359-2
Lateral	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	27	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 3		UL 746
Comparative Tracking Index (3.00 mm)	190	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)	281	mm/min	UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 4		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 - 120	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	200 - 240	°C	
Middle Temperature	220 - 250	°C	
Front Temperature	230 - 260	°C	
Nozzle Temperature	230 - 260	°C	
Mold Temperature	60.0 - 80.0	°C	
Back Pressure	5.00 - 20.0	MPa	
Screw Speed	50 - 100	rpm	

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