

# Novalloy-S S5230

Polycarbonate + ABS

PlastxWorld Inc.

## Message:

Novalloy-S S5230 is a polycarbonate + acrylonitrile butadiene styrene (PC + ABS) material, and the filler is 30% glass fiber reinforced material. This product is available in the Asia-Pacific region. The main characteristics of Novalloy-S S5230 are: flame retardant/rated flame.

| General Information                             |                                                       |                   |             |
|-------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| UL YellowCard                                   | E47773-239766                                         |                   |             |
| Filler / Reinforcement                          | Glass fiber reinforced material, 30% filler by weight |                   |             |
| Physical                                        | Nominal Value                                         | Unit              | Test Method |
| Density                                         | 1.43                                                  | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow                        | 0.10 - 0.30                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                  | 0.30                                                  | %                 | ISO 62      |
| Mechanical                                      | Nominal Value                                         | Unit              | Test Method |
| Tensile Stress (Yield)                          | 120                                                   | MPa               | ISO 527-2   |
| Flexural Modulus                                | 9000                                                  | MPa               | ISO 178     |
| Flexural Stress                                 | 180                                                   | MPa               | ISO 178     |
| Impact                                          | Nominal Value                                         | Unit              | Test Method |
| Charpy Notched Impact Strength                  |                                                       |                   | ISO 179/1eA |
| -30°C                                           | 8.0                                                   | kJ/m <sup>2</sup> | ISO 179/1eA |
| 23°C                                            | 9.0                                                   | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Izod Impact (23°C, 6.40 mm)             | 80                                                    | J/m               | ASTM D256   |
| Thermal                                         | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load               |                                                       |                   |             |
| 1.8 MPa, unannealed, 6.40mm                     | 137                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                           | 130                                                   | °C                | ISO 75-2/A  |
| Linear thermal expansion coefficient            |                                                       |                   | ISO 11359-2 |
| Flow                                            | 3.0E-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)                   | 29                                                    | kV/mm             | ASTM D149   |
| Arc Resistance (3.00 mm)                        | 72.0                                                  | 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) | 141                                                   | mm/min            | UL 746      |

| High Voltage Arc Tracking Rate (HVTR)<br>(3.00 mm) | PLC 3         |      | 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 (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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