

# Novalloy-A A2706

Acrylonitrile Butadiene Styrene + Nylon  
PlastxWorld Inc.

Message:

Novalloy-A A2706 is an acrylonitrile butadiene styrene nylon (ABS nylon) material. This product is available in the Asia-Pacific region. The main characteristics of Novalloy-A A2706 are: flame retardant/rated flame.

| General Information                  |             |               |                   |             |
|--------------------------------------|-------------|---------------|-------------------|-------------|
| UL YellowCard                        |             | E47773-239583 |                   |             |
| Physical                             | Dry         | Conditioned   | Unit              | Test Method |
| Density                              | 1.31        | --            | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow             | 0.10 - 0.50 | --            | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)       | 0.70        | --            | %                 | ISO 62      |
| Hardness                             | Dry         | Conditioned   | Unit              | Test Method |
| Rockwell Hardness (R-Scale)          | 117         | 115           |                   | ISO 2039-2  |
| Mechanical                           | Dry         | Conditioned   | Unit              | Test Method |
| Tensile Stress (Yield)               | 120         | 93.0          | MPa               | ISO 527-2   |
| Flexural Modulus                     | 7400        | 5100          | MPa               | ISO 178     |
| Flexural Stress                      | 190         | 150           | MPa               | ISO 178     |
| Impact                               | Dry         | Conditioned   | Unit              | Test Method |
| Charpy Notched Impact Strength       |             |               |                   | ISO 179/1eA |
| -30°C                                | 9.0         | --            | kJ/m <sup>2</sup> | ISO 179/1eA |
| 23°C                                 | 14          | 16            | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Izod Impact                  |             |               |                   | ASTM D256   |
| -30°C, 6.40 mm                       | 90          | --            | J/m               | ASTM D256   |
| 23°C, 6.40 mm                        | 140         | 160           | J/m               | ASTM D256   |
| Thermal                              | Dry         | Conditioned   | Unit              | Test Method |
| Deflection Temperature Under Load    |             |               |                   |             |
| 0.45 MPa, unannealed, 6.40mm         | 220         | 215           | °C                | ASTM D648   |
| 0.45 MPa, not annealed               | 220         | 210           | °C                | ISO 75-2/B  |
| 1.8 MPa, unannealed, 6.40mm          | 200         | 195           | °C                | ASTM D648   |
| 1.8 MPa, not annealed                | 190         | 180           | °C                | ISO 75-2/A  |
| Linear thermal expansion coefficient |             |               |                   | ISO 11359-2 |
| Flow                                 | 3.0E-5      | --            | cm/cm/°C          | ISO 11359-2 |
| Lateral                              | 1.0E-4      | --            | cm/cm/°C          | ISO 11359-2 |
| Electrical                           | Dry         | Conditioned   | Unit              | Test Method |

|                               |             |             |       |             |
|-------------------------------|-------------|-------------|-------|-------------|
| Dielectric Strength (1.50 mm) | 15          | --          | kV/mm | ASTM D149   |
| Arc Resistance (3.00 mm)      | 94.0        | --          | sec   | ASTM D495   |
| Arc Resistance (3.00 mm)      | PLC 6       | --          |       | ASTM D495   |
| Flammability                  | Dry         | Conditioned | Unit  | Test Method |
| Flame Rating                  | HB          | --          |       | UL 94       |
| Additional Information        | Dry         | Conditioned | Unit  |             |
| Moisture Content              | --          | 1.1         | %     |             |
| Injection                     | Dry         | Unit        |       |             |
| Drying Temperature            | 90.0 - 100  |             | °C    |             |
| Drying Time                   | 4.0 - 5.0   |             | hr    |             |
| Rear Temperature              | 180 - 210   |             | °C    |             |
| Middle Temperature            | 230 - 250   |             | °C    |             |
| Front Temperature             | 240 - 260   |             | °C    |             |
| Nozzle Temperature            | 230 - 250   |             | °C    |             |
| Mold Temperature              | 70.0 - 90.0 |             | °C    |             |
| Back Pressure                 | 10.0 - 20.0 |             | MPa   |             |
| Screw Speed                   | 50 - 80     |             | rpm   |             |

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