

# TAIRILAC AF3500

Acrylonitrile Butadiene Styrene  
Formosa Plastics Corporation

Message:

FCFC ABS resin AF3500 meets the requirements of UL, SGS and the certificates of environmental protection.

| General Information                   |                      |                   |                                    |
|---------------------------------------|----------------------|-------------------|------------------------------------|
| UL YellowCard                         | E162823-224706       |                   |                                    |
| Agency Ratings                        | EC 1907/2006 (REACH) |                   |                                    |
| RoHS Compliance                       | RoHS compliance      |                   |                                    |
| UL File Number                        | E162823              |                   |                                    |
| Forms                                 | Particle             |                   |                                    |
| Processing Method                     | Injection molding    |                   |                                    |
| Physical                              | Nominal Value        | Unit              | Test Method                        |
| Specific Gravity                      |                      |                   |                                    |
| --                                    | 1.04                 | g/cm <sup>3</sup> | ASTM D792                          |
| 23°C                                  | 1.04                 | g/cm <sup>3</sup> | ISO 1183                           |
| Melt Mass-Flow Rate (MFR)             |                      |                   | ASTM D1238, ISO 1133               |
| 200°C/5.0 kg                          | 5.0                  | g/10 min          | ASTM D1238, ISO 1133               |
| 220°C/10.0 kg                         | 50                   | g/10 min          | ASTM D1238, ISO 1133               |
| Molding Shrinkage - Flow              | 0.40 - 0.70          | %                 | Internal method                    |
| Hardness                              | Nominal Value        | Unit              | Test Method                        |
| Rockwell Hardness                     |                      |                   |                                    |
| Class R, 23°C                         | 101                  |                   | ASTM D785                          |
| R scale, 23°C                         | 101                  |                   | ISO 2039-2                         |
| Mechanical                            | Nominal Value        | Unit              | Test Method                        |
| Tensile Strength                      |                      |                   |                                    |
| 23°C                                  | 39.2                 | MPa               | ASTM D638                          |
| 23°C                                  | 39.0                 | MPa               | ISO 527-2                          |
| Flexural Modulus (23°C)               | 2160                 | MPa               | ASTM D790, ISO 178                 |
| Flexural Strength (23°C)              | 67.0                 | MPa               | ASTM D790, ISO 178                 |
| Impact                                | Nominal Value        | Unit              | Test Method                        |
| Unnotched Izod Impact (23°C, 6.35 mm) | 290                  | J/m               | ISO 180, ASTM D256                 |
| Thermal                               | Nominal Value        | Unit              | Test Method                        |
| Deflection Temperature Under Load     |                      |                   | ASTM D648, ISO 75-2/A              |
| 1.8 MPa, unannealed, 12.7mm           | 84.0                 | °C                | ASTM D648, ISO 75-2/A              |
| 1.8 MPa, annealed <sup>1</sup>        | 94.0                 | °C                | ASTM D648, ISO 75-2/A              |
| Vicat Softening Temperature           | 99.0                 | °C                | ISO 306/A, ASTM D1525 <sup>2</sup> |
| Flammability                          | Nominal Value        | Test Method       |                                    |
| Flame Rating (1.50 mm, All Colors)    | HB                   | UL 94             |                                    |

| Injection                | Nominal Value | Unit |
|--------------------------|---------------|------|
| Drying Temperature       | 70.0 - 80.0   | °C   |
| Drying Time              | 2.0 - 3.0     | hr   |
| Mold Temperature         | 40.0 - 80.0   | °C   |
| Injection Pressure       | 58.8 - 108    | MPa  |
| Injection instructions   |               |      |
| Screw Temp: 180 to 230°C |               |      |
| NOTE                     |               |      |
| 1.                       | 80°Cx8Hr      |      |
| 2.                       | 压 力1 (10N)    |      |

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