TAIRILAC AG15A1
Acrylonitrile Butadiene Styrene
Formosa Plastics Corporation

Technical Data

Product Description
FCFC ABS resin AG15A1 meets the requirements of UL, SGS, FDA and the certificates of environmental protection.

General
Material Status
• Commercial: Active

Literature
• Processing (English)
• Technical Datasheet (English)

UL Yellow Card
• E162823-224731

Search for UL Yellow Card
• Formosa Plastics Corporation
• TAIRILAC

Availability
• Asia Pacific
• Europe
• North America

Agency Ratings
• EC 1907/2006 (REACH)

RoHS Compliance
• RoHS Compliant

UL File Number
• E162823

Forms
• Pellets

Processing Method
• Injection Molding

Physical
Specific Gravity
- 73°F (23°C) 1.05 1.05 g/cm³ ASTM D792

Melt Mass-Flow Rate (MFR)
200°C/5.0 kg 19 g/10 min 1.9 g/10 min ASTM D1238
220°C/10.0 kg 19 g/10 min 19 g/10 min ISO 1133

Molding Shrinkage - Flow
4.0E-3 to 7.0E-3 in/in 0.40 to 0.70 % Internal Method

Mechanical
Tensile Strength
73°F (23°C) 6900 psi 47.6 MPa ASTM D638
73°F (23°C) 6960 psi 48.0 MPa ISO 527-2

Flexural Modulus (73°F (23°C)) 384000 psi 2650 MPa ASTM D790

Flexural Strength (73°F (23°C)) 11500 psi 79.4 MPa ISO 178

Impact
Unnotched Izod Impact
73°F (23°C), 0.250 in (6.35 mm) 3.7 ft·lb/in 200 J/m ASTM D256

Hardness
Rockwell Hardness (R-Scale, 73°F (23°C)) 110 110 ASTM D785

Thermal
Deflection Temperature Under Load
264 psi (1.8 MPa), Unannealed, 0.500 in (12.7 mm) 185 °F 85.0 °C ASTM D648
264 psi (1.8 MPa), Annealed 4 203 °F 95.0 °C ISO 306/A

Vicat Softening Temperature
212 °F 100 °C ASTM D1525

Flammability
Flame Rating (0.06 in (1.5 mm), All Colors) HB HB UL 94

Injection
Drying Temperature 158 to 176 °F 70 to 80 °C
Drying Time 2.0 to 3.0 hr 2.0 to 3.0 hr
## Injection Properties

<table>
<thead>
<tr>
<th>Injection Parameter</th>
<th>Nominal Value (English)</th>
<th>Nominal Value (SI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mold Temperature</td>
<td>104 to 176 °F</td>
<td>40 to 80 °C</td>
</tr>
<tr>
<td>Injection Pressure</td>
<td>9960 to 15600 psi</td>
<td>68.6 to 108 MPa</td>
</tr>
</tbody>
</table>

### Injection Notes

- **Screw Temp:** 190 to 230°C

### Notes

1. These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

2. A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

3. Typical properties: these are not to be construed as specifications.

4. **80°Cx8Hr**

5. **Loading 1 (10 N)**

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http://www.upmold.com
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Formosa Plastics Corporation

Where to Buy

Supplier
Formosa Plastics Corporation
Taipei, Taiwan
Telephone: +886-2-2712-2211
Web: http://www.fpc.com.tw/

Distributor
GAZECHIM PLASTIQUES
GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.
Telephone: +33-4-67-49-55-37
Web: http://www.gazechim.com/
Availability: Italy

Osterman & Company
Telephone: 800-914-4437
Web: http://www.osterman-co.com/
Availability: North America

PolySource
Telephone: 866-558-5300
Web: http://www.polysource.net/
Availability: North America

http://www.upmold.com