

TAIRILAC AG15A1

Acrylonitrile Butadiene Styrene
Formosa Plastics Corporation

Technical Data

General

Material Status	• Commercial: Active		
Literature ¹	• Processing (English) • Technical Datasheet (English)		
UL Yellow Card ²	• E162823-224731		
Search for UL Yellow Card	• Formosa Plastics Corporation • TAIRILAC		
Availability	• Asia Pacific	• Europe	• North America
Features	• High Gloss	• High Rigidity	
Uses	• Housings	• Toys	
RoHS Compliance	• RoHS Compliant		
UL File Number	• E162823		
Forms	• Pellets		

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.05 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR)		ASTM D1238 ISO 1133
200°C/5.0 kg	1.6 g/10 min	
220°C/10.0 kg	17 g/10 min	
Molding Shrinkage - Flow (23°C)	0.40 to 0.70 %	Internal Method

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield, 23°C)	50.0 MPa	ASTM D638 ISO 527-2
Flexural Modulus (23°C)	2650 MPa	ASTM D790 ISO 178
Flexural Strength		
23°C	84.0 MPa	ISO 178
Yield, 23°C	83.4 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	200 J/m	ISO 180 ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	110	ASTM D785 ISO 2039-2

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 12.7 mm	89.0 °C	ASTM D648
1.8 MPa, Unannealed	89.0 °C	ISO 75-2/A
1.8 MPa, Annealed, 12.7 mm	101 °C	ASTM D648
1.8 MPa, Annealed	101 °C	ISO 75-2/A
Vicat Softening Temperature	104 °C	ISO 306/A ASTM D1525 ⁴

Flammability	Nominal Value Unit	Test Method
Flame Rating (0.318 mm, All Colors)	HB	UL 94

Injection	Nominal Value Unit
Drying Temperature	70.0 to 80.0 °C
Drying Time	2.0 to 3.0 hr
Mold Temperature	40.0 to 80.0 °C
Injection Pressure	68.6 to 108 MPa

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 IDES 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 Loading 1 (10 N)

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



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– Kevin Chase, Owner & President, Chase Plastics



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