

TAIRILAC® AG100H

Formosa Chemicals & Fibre Corporation - Acrylonitrile Butadiene Styrene

General Information

Product Description

General Grade

Features: Super high impact

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• General Purpose	• Ultra High Impact Resistance	
Uses	• General Purpose		
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
UL File Number	• E162823		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (73°F)	5260	psi	ASTM D638
Tensile Stress (73°F)	5510	psi	ISO 527-2/50
Flexural Modulus ³ (73°F)	270000	psi	ASTM D790
Flexural Modulus ⁴ (73°F)	261000	psi	ISO 178
Flexural Strength ³ (73°F)	8820	psi	ASTM D790
Flexural Stress ⁴ (73°F)	7980	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F, 0.157 in)	19	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.250 in)	7.5	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	95		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	95		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (264 psi, Unannealed, 0.250 in)	181	°F	ASTM D648
Deflection Temperature Under Load ⁵ (264 psi, Annealed, 0.250 in)	199	°F	ASTM D648
Deflection Temperature Under Load ⁵ (264 psi, Annealed, 0.157 in)	189	°F	ISO 75-2/A
Vicat Softening Temperature	199	°F	ASTM D1525 ⁶
Vicat Softening Temperature	203	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 to 0.12 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 3.0	hr



Mold Temperature	104 to 176 °F
Injection Pressure	9960 to 15600 psi

Notes

¹ Typical properties: these are not to be construed as specifications.
² 2.0 in/min
³ 0.59 in/min
⁴ 0.079 in/min
⁵ 120°C/h
⁶ Rate A (50°C/h), Loading 2 (50 N)

