

TAIRILAC® AG12A3

Formosa Chemicals & Fibre Corporation - Acrylonitrile Butadiene Styrene

General Information

Product Description

General Grade

Features: High impact

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.04		ASTM D792
Density (73°F)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.6	g/10 min	
220°C/10.0 kg	18	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
200°C/5.0 kg	1.6	g/10 min	
220°C/10.0 kg	18	g/10 min	
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage (0.126 in)	0.40 to 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	6120	psi	ASTM D638
Tensile Stress (73°F)	6380	psi	ISO 527-2/50
Flexural Modulus ⁴ (73°F)	327000	psi	ASTM D790
Flexural Modulus ⁵ (73°F)	319000	psi	ISO 178
Flexural Strength ⁴ (73°F)	10400	psi	ASTM D790
Flexural Stress ⁵ (73°F)	9280	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F, 0.157 in)	15	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.250 in)	5.9	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	106		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	106		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (264 psi, Unannealed, 0.250 in)	183	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.250 in)	201	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.157 in)	210	°F	ISO 75-2/A
Vicat Softening Temperature	199	°F	ASTM D1525 ⁷
Vicat Softening Temperature	199	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 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 23°C		
³ 2.0 in/min		
⁴ 0.59 in/min		
⁵ 0.079 in/min		
⁶ 120°C/h		
⁷ Rate A (50°C/h), Loading 2 (50 N)		

