TAIRILAC® AG12A0

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	• 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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.6	g/10 min	
220°C/10.0 kg	19	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
200°C/5.0 kg	1.6	g/10 min	
220°C/5.0 kg	19	g/10 min	
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 [3] (73°F)	5970	psi	ASTM D638
Tensile Stress (73°F)	6380	psi	ISO 527-2/50
Flexural Modulus [4] (73°F)	341000	psi	ASTM D790
Flexural Modulus [5] (73°F)	334000	psi	ISO 178
Flexural Strength [4] (73°F)	107000	psi	ASTM D790
Flexural Stress [5] (73°F)	9570	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F, 0.157 in)	14	ft·lb/in²	ISO 179
Notched Izod Impact (73°F, 0.250 in)	5.5	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 73°F)	105		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	105		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
Vicat Softening Temperature	203	°F	ASTM D1525 [7]
Vicat Softening Temperature	199	°F	ISO 306/B50
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 to 0.12 in, All Colors	HB		
0.12 in, All Colors	HB		

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)