

TAIRILAC® ANC100

Formosa Chemicals & Fibre Corporation - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

Self Extinguishing Grade

Features: Flame retardant

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant	• Self Extinguishing	
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	0.00		ASTM D792
Density (73°F)	1.21	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	3.0E-3 to 6.0E-3	in/in	ASTM D955
Molding Shrinkage (0.126 in)	0.30 to 0.60	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	5970	psi	ASTM D638
Tensile Stress (73°F)	5800	psi	ISO 527-2/50
Flexural Modulus ⁴ (73°F)	341000	psi	ASTM D790
Flexural Modulus ⁵ (73°F)	290000	psi	ISO 178
Flexural Strength ⁴ (73°F)	10200	psi	ASTM D790
Flexural Stress ⁵ (73°F)	8560	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F, 0.157 in)	8.1	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.250 in)	4.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	101		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	101		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (264 psi, Unannealed, 0.250 in)	169	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.250 in)	194	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.157 in)	169	°F	ISO 75-2/A
Vicat Softening Temperature	176	°F	ASTM D1525 ⁷
Vicat Softening Temperature	176	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 to 0.12 in	V-0		
0.09 to 0.10 in	5VA		

Processing Information

Injection

Nominal Value Unit



Drying Temperature	158 to 176 °F
Drying Time	2.0 to 3.0 hr
Mold Temperature	104 to 158 °F
Injection Pressure	8530 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)

