

TAIRILAC® ANC120

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	1.19		ASTM D792
Density (73°F)	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.5	g/10 min	ISO 1133
Molding Shrinkage (0.126 in)	0.30 to 0.60	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	5690	psi	ASTM D638
Tensile Stress (73°F)	5660	psi	ISO 527-2/50
Flexural Modulus ⁴ (73°F)	327000	psi	ASTM D790
Flexural Modulus ⁵ (73°F)	290000	psi	ISO 178
Flexural Strength ⁴ (73°F)	9810	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)	8.6	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.250 in)	4.8	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	100		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	100		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (264 psi, Unannealed, 0.250 in)	165	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.250 in)	183	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.157 in)	174	°F	ISO 75-2/A
Vicat Softening Temperature	181	°F	ASTM D1525 ⁷
Vicat Softening Temperature	181	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.09 to 0.12 in)	• V-0 • 5VB		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 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)

