

TAIRILAC® AX4100

Formosa Chemicals & Fibre Corporation - Acrylonitrile Butadiene Styrene

General Information
Product Description

Heat Resistant Grade

Features: Super high heat

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• High Heat Resistance
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	1.05		ASTM D792
Density (73°F)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.5	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)	5690	psi	ASTM D638
Tensile Stress (73°F)	5510	psi	ISO 527-2/50
Flexural Modulus ⁴ (73°F)	341000	psi	ASTM D790
Flexural Modulus ⁵ (73°F)	305000	psi	ISO 178
Flexural Strength ⁴ (73°F)	10500	psi	ASTM D790
Flexural Stress ⁵ (73°F)	8850	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F, 0.157 in)	7.6	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.250 in)	2.8	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	110		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	110		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (264 psi, Unannealed, 0.250 in)	216	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.250 in)	234	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.157 in)	216	°F	ISO 75-2/A
Vicat Softening Temperature	223	°F	ASTM D1525 ⁷
Vicat Softening Temperature	223	°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	194 to 203	°F
Drying Time	2.0 to 3.0	hr
Mold Temperature	104 to 194	°F



Injection Pressure	9960 to 17100 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)	

