

TAIRILAC® AE8700

 Formosa Chemicals & Fibre Corporation - *Acrylonitrile Butadiene Styrene*
General Information
Product Description

Extrusion Grade

Features: Extrusion molding, Super high impact, High rigid.

General

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

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) (220°C/10.0 kg)	3.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	3.5	g/10 min	ISO 1133
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)	6830	psi	ASTM D638
Tensile Stress (73°F)	6670	psi	ISO 527-2/50
Flexural Modulus ⁴ (73°F)	356000	psi	ASTM D790
Flexural Modulus ⁵ (73°F)	334000	psi	ISO 178
Flexural Strength ⁴ (73°F)	11700	psi	ASTM D790
Flexural Stress ⁵ (73°F)	10000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F, 0.157 in)	19	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.250 in)	6.4	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	109		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	109		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (264 psi, Unannealed, 0.250 in)	194	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.250 in)	210	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.157 in)	189	°F	ISO 75-2/A
Vicat Softening Temperature	203	°F	ASTM D1525 ⁷
Vicat Softening Temperature	203	°F	ISO 306/B50

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	194 to 230	°F



Middle Temperature	176 to 194 °F
Front Temperature	158 to 176 °F

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)

