

TAIRILAC® AE10EP

Formosa Chemicals & Fibre Corporation - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

Jet Black Extrusion Grade

Features: Extrusion molding, Super high impact, High rigid

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.9	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.9	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	5580	psi	ASTM D638
Tensile Stress (73°F)	5370	psi	ISO 527-2
Flexural Modulus ⁴ (73°F)	299000	psi	ASTM D790
Flexural Modulus (73°F)	3.05E+6	psi	ISO 178
Flexural Strength ⁴ (73°F)	9390	psi	ASTM D790
Flexural Stress (73°F)	7400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	8.8	ft-lb/in	ASTM D256
Notched Izod Impact Strength (73°F, 0.157 in)	23	ft-lb/in ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	97		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (264 psi, Unannealed, 0.157 in)	187	°F	ISO 75-2/A

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

