

TAIRILOY® AC3100

 Formosa Chemicals & Fibre Corporation - *Polycarbonate + ABS*
General Information
Product Description

Self Extinguishing Grade

Features: Flame retardant, Halogen free

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free • Self Extinguishing
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
UL File Number	• E162823
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• >PC+ABS-FR(40)<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.18		ASTM D792
Density (73°F)	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/2.16 kg	0.0	g/10 min	
240°C/5.0 kg	25	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
240°C/5.0 kg	25	g/10 min	
260°C/2.16 kg	17	g/10 min	
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 6.0E-3	in/in	ASTM D955
Molding Shrinkage (0.126 in)	0.40 to 0.60	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (73°F)	9250	psi	ASTM D638
Tensile Stress (73°F)	8700	psi	ISO 527-2
Flexural Modulus (73°F)	356000	psi	ASTM D790
Flexural Modulus (73°F)	354000	psi	ISO 178
Flexural Strength (73°F)	14200	psi	ASTM D790
Flexural Stress (73°F)	13600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F, 0.157 in)	21	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.126 in)	12	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F, 0.126 in)	300	ft·lb/in ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	118		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	118		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.252 in)	194	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.252 in)	32.0	°F	ISO 75-2/A
Vicat Softening Temperature	225	°F	ASTM D1525 ³
Vicat Softening Temperature	225	°F	ISO 306/A
Flammability	Nominal Value	Unit	Test Method



Flame Rating	UL 94
0.04 to 0.12 in	V-0
0.09 in	5VB
0.12 in	5VA

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C

³ Loading 1 (10 N)

