

TAIRILITE® AC3610-AF

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

Self extinguishing grade

Features: High flow, Non-transparency, Cl, Br, Sb free, Flame retardant

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Additive	• Flame Retardant
Features	• Bromine Free • Chlorine Free • Flame Retardant • High Flow • Self Extinguishing
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
UL File Number	• E162823
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.20		ASTM D792
Density (73°F)	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	19	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage (73°F)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (73°F)	8750	psi	ASTM D638
Tensile Stress (73°F)	9720	psi	ISO 527-2
Flexural Modulus (73°F)	329000	psi	ASTM D790
Flexural Modulus (73°F)	312000	psi	ISO 178
Flexural Strength (73°F)	14900	psi	ASTM D790
Flexural Stress (73°F)	14400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	13	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F, 0.126 in)	350	ft·lb/in ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	122		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	122		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.126 in)	235	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.126 in)	235	°F	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.024 in		V-2	
0.031 in		V-1	
0.04 to 0.12 in		V-0	

