

TAIRILITE® AC3900

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

Self Extinguishing Grade

Features: Halogen free, Flame retardant, White color, Non-transparency, High gloss reflection

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Additive	• Flame Retardant
Features	• Flame Retardant • High Gloss • Halogen Free • Self Extinguishing
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
UL File Number	• E162823
Appearance	• White
Resin ID (ISO 1043)	• >PC<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.28		ASTM D792
Density (73°F)	1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	26	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	26	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage (0.126 in)	0.50 to 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (73°F)	8680	psi	ASTM D638
Tensile Stress (73°F)	8700	psi	ISO 527-2
Flexural Modulus (73°F)	341000	psi	ASTM D790
Flexural Modulus (73°F)	341000	psi	ISO 178
Flexural Strength (73°F)	15100	psi	ASTM D790
Flexural Stress (73°F)	15100	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)	11	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F, 0.126 in)	280	ft·lb/in ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	121		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	121		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	255	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.126 in)	255	°F	ISO 75-2/A
Vicat Softening Temperature	295	°F	ASTM D1525 ³
Vicat Softening Temperature	295	°F	ISO 306/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 to 0.12 in)	V-0		UL 94

