

**TAIRILITE® AC3873**

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

Transparent flame retardant

Features: Transparency, Flame retardant, Low flow, UV resistance, Halogen free.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Additive	• Flame Retardant
Features	• Flame Retardant • Low Flow • Halogen Free • UV Resistant
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
UL File Number	• E162823
Appearance	• Clear/Transparent

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity <sup>2</sup>	1.20		ASTM D792
Density (73°F)	1.20	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage	0.50 to 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>3</sup> (73°F)	10100	psi	ASTM D638
Tensile Stress (73°F)	10200	psi	ISO 527-2/50
Flexural Modulus <sup>4</sup> (73°F)	313000	psi	ASTM D790
Flexural Modulus <sup>4</sup> (73°F)	313000	psi	ISO 178
Flexural Strength (73°F)	15600	psi	ASTM D790
Flexural Stress <sup>4</sup> (73°F)	15700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F, 0.157 in)	33	ft·lb/in <sup>2</sup>	ISO 179
Notched Izod Impact (73°F, 0.126 in)	14	ft·lb/in	ASTM D256
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 <sup>5</sup> (264 psi, Unannealed, 0.126 in)	262	°F	ASTM D648
Deflection Temperature Under Load <sup>5</sup> (264 psi, Unannealed, 0.157 in)	262	°F	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance (126.0 mil)	> 87.0	%	ASTM D1003
Haze (126.0 mil)	< 1.00	%	ASTM D1003

