

TAIRILITE AC3800

Polycarbonate
Formosa Plastics Corporation

Message:
FCFC PC resin AC3800 meets the requirements of UL, SGS and the certificates of environmental protection.

General Information			
UL YellowCard	E162823-100036444		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
UL File Number	E162823		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.20	g/cm ³	ASTM D792
23°C	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.50 - 0.70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class R, 23°C	122		ASTM D785
R scale, 23°C	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	66.7	MPa	ASTM D638
23°C	66.0	MPa	ISO 527-2
Flexural Modulus (23°C)	2250	MPa	ASTM D790, ISO 178
Flexural Strength (23°C)	100	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C, 3.18 mm)	780	J/m	ASTM D256, ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	126	°C	ASTM D648, ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-2		UL 94
6.30 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 130	°C	

Drying Time	4.0 - 8.0	hr
Mold Temperature	80.0 - 100	°C
Injection Pressure	4.90 - 7.85	MPa

Injection instructions

Screw Temp: 260-290°C

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