

TAIRILAC AX4100

Acrylonitrile Butadiene Styrene

Formosa Plastics Corporation

Message:

FCFC ABS resin AX4100 meets the requirements of UL, SGS and the certificates of environmental protection.

General Information			
UL YellowCard	E162823-224722		
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			
--	1.05	g/cm ³	ASTM D792
23°C	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.40 - 0.70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class R, 23°C	107		ASTM D785
R scale, 23°C	107		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	39.2	MPa	ASTM D638
23°C	39.0	MPa	ISO 527-2
Flexural Modulus (23°C)	2350	MPa	ASTM D790, ISO 178
Flexural Strength (23°C)	69.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C, 6.35 mm)	140	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648, ISO 75-2/A
1.8 MPa, unannealed, 12.7mm	106	°C	ASTM D648, ISO 75-2/A
1.8 MPa, annealed ¹	116	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/A, ASTM D1525 ²
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm, All Colors)	HB	UL 94	
Injection	Nominal Value	Unit	

Drying Temperature	90.0 - 95.0	°C
Drying Time	2.0 - 3.0	hr
Mold Temperature	40.0 - 90.0	°C
Injection Pressure	68.6 - 118	MPa
Injection instructions		
Screw Temp: 200 to 250°C		
NOTE		
1.	95°Cx8Hr	
2.	压力1 (10N)	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

