

TAIRILAC AT5500

Methyl Methacrylate / ABS
Formosa Plastics Corporation

Message:

FCFC ABS resin AT5500 meets the requirements of UL, SGS and the certificates of environmental protection.

General Information			
UL YellowCard	E162823-224728		
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			
--	1.07	g/cm ³	ASTM D792
23°C	1.07	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
200°C/5.0 kg	2.2	g/10 min	ASTM D1238, ISO 1133
220°C/10.0 kg	22	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	103		ASTM D785
R scale, 23°C	103		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	41.2	MPa	ASTM D638
23°C	41.0	MPa	ISO 527-2
Flexural Modulus (23°C)	2160	MPa	ASTM D790, ISO 178
Flexural Strength (23°C)	70.0	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	86.0	°C	ASTM D648, ISO 75-2/A
1.8 MPa, annealed ¹	96.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	102	°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	70.0 - 80.0	°C
Drying Time	2.0 - 3.0	hr
Mold Temperature	40.0 - 80.0	°C
Injection Pressure	68.6 - 108	MPa
Injection instructions		
Screw Temp: 190 to 230°C		
NOTE		
1.	80°Cx8Hr	
2.	压 力1 (10N)	

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