

### Datasheet of ABS CHIMEI 0215A

	Property	Test Condition	Standard	Value	Unit	
Mechanical properties	Tensile strength		ASTM D638/ISO 527	(48)	kg/cm <sup>2</sup> (MPa)[Lb/in <sup>2</sup> ]	
	Elongation at break		ASTM D638/ISO 527		%	
	Tensile modulus		ASTM D638/ISO 527		kg/cm <sup>2</sup> (MPa)[Lb/in <sup>2</sup> ]	
	Tensile strength at yield		ASTM D638/ISO 527		%	
	Tensile strength at break		ASTM D638/ISO 527		%	
	Flexural modulus		ASTM D790/ISO 178	(2500)	kg/cm <sup>2</sup> (MPa)[Lb/in <sup>2</sup> ]	
	Flexural strength		ASTM D790/ISO 178	82	kg/cm <sup>2</sup> (MPa)[Lb/in <sup>2</sup> ]	
	Rockwell hardness		ASTM D785	R-107		
	Izod notched impact strength	1/4" 23°C		ASTM D256/ISO 179		kg·cm/cm(J/M)ft·lb/in
		1/4" -30°C		ASTM D256/ISO 179		kg·cm/cm(J/M)ft·lb/in
1/8" 23°C			ASTM D256/ISO 179		kg·cm/cm(J/M)ft·lb/in	
1/8" -30°C			ASTM D256/ISO 179		kg·cm/cm(J/M)ft·lb/in	
Physical properties	Density		ASTM D792/ISO 1183			
	Molding shrinkage		ASTM D955		%	
	Melt index	200°C/5kg		ASTM D1238/ISO 1133	16	g/10min
		220°C/10kg		ASTM D1238/ISO 1133		g/10min
	Water absorption 23°C/24H		ASTM D570/ISO 62		%	
Thermal properties	Distortion temperature	Annealed	ASTM D648/ISO 75	89	°C (°F)	
		Un-annealed	ASTM D648/ISO 75		°C (°F)	
	Vicat softening temperature		ASTM D1525/ISO R306		°C (°F)	
	Melting temperature		-		°C (°F)	
	Combustion (rate)		UL94			
	Coefficient of linear expansion		ASTM D696/ISO 11359		mm/mm.°C	