

Chi Mei® D-1200

Chi Mei® D - 1200 is a pellet - shaped ABS material produced by Zhenjiang Chi Mei, which is suitable for injection molding and has a flame retardancy rating of HB V - 0.

Physical property		Standard	Value	Unit
Density	23°C	ISO 1183	1.17	g/cm³
Density	23°C	ASTM D792	1.17	g/cm³
Melt Index	200°C 5kg	ISO 1133	4.5	cm³/10min
Melt Index	220°C 10kg	ISO 1133	47	cm³/10min
Melt Index	200°C 5kg	ASTM D1238	6	g/10min
Hardness		Standard	Value	Unit
Rockwell Hardness	R(Scale)	ASTM D785	102	
Rockwell Hardness	R(Scale) 12.7mm	ASTM D785	102	
Mechanical behavior		Standard	Value	Unit
Tensile Strength	50mm/min	ISO 527	38	MPa
Tensile Strength	6mm/min 3.2mm	ASTM D638	360	kg/cm²
Elongation	50mm/min	ISO 527	20	%
Elongation	6mm/min 3.2mm	ASTM D638	20	%
Flexural Strength	2.0mm/min	ISO 178	65	MPa
Flexural Strength	2.8mm/min 6.4mm	ASTM D790	640	kg/cm²
Flexural Modulus	2.0mm/min	ISO 178	2.2	GPa
Flexural Modulus	2.8mm/min 6.4mm	ASTM D790	23000	kg/cm²
Izod Notch Impact	23°C 4.0mm	ISO 180	19	kJ/m²
Izod Notch Impact	23°C 6.4mm	ASTM D256	20	kg-cm/cm
Izod Notch Impact	23°C 3.2mm	ASTM D256	22	kg-cm/cm
Charpy Notch Impact	23°C 4.0mm	ISO 179	20	kJ/m²
Thermal		Standard	Value	Unit
HDT	Annealed 1.8MPa	ISO 75	85	°C
HDT	Unannealed 1.8MPa	ISO 75	72	°C
HDT	Annealed Annealed at 85°C for 8 hours	ASTM D648	85	°C
HDT	Unannealed	ASTM D648	76	°C
Vicat Softening Temperature	50°C/hr 10N	ISO 306	92	°C
Vicat Softening Temperature	50°C/hr 3.2mm	ASTM D1525	91	°C