

ChiMei

ABS

PA-777B

Product information				
Manufacturer		ChiMei Corporation		
Material Shape		Pellets		
Process		Injection molding		
FR		HB		
Material Attribute		Injection grade High heat resistance grade		
Features		High impact		
Application		Automotive partsOffice ApplicationsE & E housingCompacting equipmentHairdryer housing		
Additives		Heat Stabilizer Lubricant Mold Releases		
Flammability	Condition	Standard	Value	Unit
Flame	Rating All Color 1.5~1.7mm	UL94	HB	
Hardness	Condition	Standard	Value	Unit
Rockwell	Hardness R(Scale)	ASTM D785	112	
Mechanical behavior	Condition	Standard	Value	Unit
Charpy	Notch Impact 23°C	ISO 179	22	kJ/m ²
Charpy	Notch Impact -30°C	ISO 179	11	kJ/m ²
Elongation	6mm/min	ASTM D638	15	%
Elongation	50mm/min	ISO 527	40	%
Flexural	Strength 2.8mm/min	ASTM D790	650	kg/cm ²
Flexural	Strength 2.0mm/min	ISO 178	67	MPa
Flexural	Modulus 2.8mm/min	ASTM D790	22000	kg/cm ²
Flexural	Modulus 2.0mm/min	ISO 178	2.2	GPa
Izod	Notch Impact 23°C 6.4mm	ASTM D256	20	kg-cm/cm
Izod	Notch Impact 23°C 3.2mm	ASTM D256	23	kg-cm/cm
Izod	Notch Impact 23°C	ISO 180	21	kJ/m ²
Izod	Notch Impact -30°C	ISO 180	11	kJ/m ²
Tensile	Strength Yield 6mm/min	ASTM D638	440	kg/cm ²
Tensile	Strength Yield 50mm/min	ISO 527	44	MPa
Tensile	Strength Break 50mm/min	ISO 527	34	MPa
Physical property	Condition	Standard	Value	Unit
Density	23°C	ASTM D792	1.03	g/cm ³
Density	23°C	ISO 1183	1.03	g/cm ³
Melt	Index 220°C 10kg	ASTM D1238	7.5	g/10min
Melt	Index 220°C 10kg	ISO 1133	8.5	cm ³ /10min
Shrinkage		ISO 294	0.3~0.6	%
Thermal	Condition	Standard	Value	Unit
CLE		ISO 11359	8.4E-5	cm/cm°C

HDT	Annealed 1.8MPa	ASTM D648	107	°C
HDT	Unannealed 1.8MPa	ASTM D648	97	°C
HDT	Unannealed 1.8MPa	ISO 75	86	°C
HDT	Annealed 1.8MPa	ISO 75	106	°C
Vicat	Softening Temperature 50°C/hr 10N	ASTM D1525	115	°C
Vicat	Softening Temperature 50°C/hr 10N	ISO 306	113	°C
Vicat	Softening Temperature 50°C/hr 50N	ISO 306	106	°C
UL	Condition	Standard	Value	Unit
Arc	Resistance	ASTM D495	7	PLC
Comparative	Tracking Index	IEC 60112	1	PLC
HAI	ALL 1.5~1.7mm	UL 746A	0	PLC
HVTR		UL 746A	0	PLC
HWI	ALL 1.5~1.7mm	UL 746A	4	PLC
RTI	Elec ALL 1.5~1.7mm	UL 746B	60	°C
RTI	Imp ALL 1.5~1.7mm	UL 746B	60	°C
RTI	Str ALL 1.5~1.7mm	UL 746B	60	°C
UL	FlameRating ALL 1.5~1.7mm	UL94	HB	