

ChiMei

ABS

PA-746

Product information				
Manufacturer	ChiMei Corporation			
Material Shape	Pellets			
Process	Injection molding			
FR	HB			
Material Attribute	Injection grade			
Features	Good appearanceHigh flow			
Application	Automotive partsOffice ApplicationsHome Appliances housingThin wall products			
Additives	Lubricant Mold Releases			
Flammability	Condition	Standard	Value	Unit
Flame	Rating All Color 1.5mm	UL94	HB	
Flame	Rating All Color 3.0mm	UL94	HB	
Hardness	Condition	Standard	Value	Unit
Rockwell	Hardness R(Scale)	ASTM D785	118	
Mechanical behavior	Condition	Standard	Value	Unit
Charpy	Notch Impact 23°C	ISO 179	30	kJ/m ²
Charpy	Notch Impact -30°C	ISO 179	14	kJ/m ²
Elongation	6mm/min	ASTM D638	30	%
Elongation	50mm/min	ISO 527	30	%
Flexural	Strength 2.8mm/min	ASTM D790	650	kg/cm ²
Flexural	Strength 2.0mm/min	ISO 178	60	MPa
Flexural	Modulus 2.8mm/min	ASTM D790	22000	kg/cm ²
Flexural	Modulus 2.0mm/min	ISO 178	1.8	GPa
Izod	Notch Impact 23°C 6.4mm	ASTM D256	26	kg-cm/cm
Izod	Notch Impact 23°C 3.2mm	ASTM D256	32	kg-cm/cm
Izod	Notch Impact 23°C	ISO 180	28	kJ/m ²
Izod	Notch Impact -30°C	ISO 180	12	kJ/m ²
Tensile	Strength Yield 6mm/min	ASTM D638	415	kg/cm ²
Tensile	Strength Yield 50mm/min	ISO 527	39	MPa
Tensile	Strength Break 50mm/min	ISO 527	29	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 200°C 5kg	ASTM D1238	3.0	g/10min
Melt	Index 220°C 10kg	ISO 1133	29	cm ³ /10min
Shrinkage		ISO 294	0.4~0.7	%

Thermal	Condition	Standard	Value	Unit
CLE		ISO 11359	9.2E-5	cm/cm/°C
HDT	Annealed 1.8MPa	ASTM D648	95	°C
HDT	Unannealed 1.8MPa	ASTM D648	85	°C
HDT	Unannealed 1.8MPa	ISO 75	82	°C
HDT	Annealed 1.8MPa	ISO 75	96	°C
Vicat	Softening Temperature 50°C/hr 10N	ASTM D1525	105	°C
Vicat	Softening Temperature 50°C/hr 10N	ISO 306	103	°C
Vicat	Softening Temperature 50°C/hr 50N	ISO 306	94	°C
UL	Condition	Standard	Value	Unit
Arc	Resistance	ASTM D495	6	PLC
Comparative	Tracking Index	IEC 60112	0	PLC
HAI	ALL 1.5mm	UL 746A	0	PLC
HAI	ALL 3.0mm	UL 746A	0	PLC
HVTR		UL 746A	2	PLC
HWI	ALL 1.5mm	UL 746A	4	PLC
HWI	ALL 3.0mm	UL 746A	3	PLC
RTI	Elec ALL 1.5mm	UL 746B	85	°C
RTI	Elec ALL 3.0mm	UL 746B	85	°C
RTI	Imp ALL 1.5mm	UL 746B	80	°C
RTI	Imp ALL 3.0mm	UL 746B	80	°C
RTI	Str ALL 1.5mm	UL 746B	85	°C
RTI	Str ALL 3.0mm	UL 746B	85	°C
UL	FlameRating ALL 1.5mm	UL94	HB	
UL	FlameRating ALL 3.0mm	UL94	HB	
Volume	Resistivity	ASTM D257	1E+16	Ω.cm