

# ChiMei

## ABS

### PA-765

Product information				
Manufacturer	ChiMei Corporation			
Material Shape	Pellets			
Process	Injection molding			
FR	V-1 V-0 5VB 5VA			
Material Attribute	Halogen Injection grade			
Features	High flowHigh strengthGood weather resistance			
Application	Automotive partsOffice ApplicationsE & E housingHome Appliances housingCompacting equipmentMotorcycle parts			
Additives	Halogen Flame Retardant Agent Lubricant Mold Releases			
Flammability	Condition	Standard	Value	Unit
Flame	Rating All Color 1.0mm	UL94	V-1	
Flame	Rating All Color 1.5mm	UL94	V-0 5VB	
Flame	Rating All Color 2.5mm	UL94	V-0 5VA	
Flame	Rating All Color 3.0mm	UL94	V-0 5VA	
Hardness	Condition	Standard	Value	Unit
Rockwell	Hardness R(Scale)	ASTM D785	100	
Mechanical behavior	Condition	Standard	Value	Unit
Charpy	Notch Impact 23°C	ISO 179	22	kJ/m <sup>2</sup>
Charpy	Notch Impact -30°C	ISO 179	10	kJ/m <sup>2</sup>
Elongation	6mm/min	ASTM D638	15	%
Elongation	50mm/min	ISO 527	10	%
Flexural	Strength 2.8mm/min	ASTM D790	620	kg/cm <sup>2</sup>
Flexural	Strength 2.0mm/min	ISO 178	55	MPa
Flexural	Modulus 2.8mm/min	ASTM D790	21000	kg/cm <sup>2</sup>
Flexural	Modulus 2.0mm/min	ISO 178	1.8	GPa
Izod	Notch Impact 23°C 6.4mm	ASTM D256	18	kg-cm/cm
Izod	Notch Impact 23°C 3.2mm	ASTM D256	22	kg-cm/cm
Izod	Notch Impact 23°C	ISO 180	21	kJ/m <sup>2</sup>
Izod	Notch Impact -30°C	ISO 180	9	kJ/m <sup>2</sup>
Tensile	Strength Yield 6mm/min	ASTM D638	390	kg/cm <sup>2</sup>
Tensile	Strength Yield 50mm/min	ISO 527	38	MPa
Tensile	Strength Break 50mm/min	ISO 527	29	MPa
Physical property	Condition	Standard	Value	Unit
Density	23°C	ASTM D792	1.19	g/cm <sup>3</sup>
Density	23°C	ISO 1183	1.19	g/cm <sup>3</sup>
Melt	Index 200°C 5kg	ASTM D1238	5.0	g/10min
Melt	Index 220°C 10kg	ISO 1133	58	cm <sup>3</sup> /10min

Shrinkage		ISO 294	0.3~0.6	%
Thermal	Condition	Standard	Value	Unit
CLE		ISO 11359	8.39E-5	cm/cm/°C
HDT	Annealed 1.8MPa	ASTM D648	83	°C
HDT	Unannealed 1.8MPa	ASTM D648	73	°C
HDT	Unannealed 1.8MPa	ISO 75	74	°C
HDT	Annealed 1.8MPa	ISO 75	83	°C
Vicat	Softening Temperature 50°C/hr 10N	ASTM D1525	90	°C
Vicat	Softening Temperature 50°C/hr 10N	ISO 306	91	°C
Vicat	Softening Temperature 50°C/hr 50N	ISO 306	78	°C
UL	Condition	Standard	Value	Unit
Arc	Resistance	ASTM D495	7	PLC
Comparative	Tracking Index	IEC 60112	1	PLC
HAI	ALL 1.0mm	UL 746A	0	PLC
HAI	ALL 1.5mm	UL 746A	0	PLC
HAI	ALL 2.5mm	UL 746A	0	PLC
HAI	ALL 3.0mm	UL 746A	0	PLC
HVTR		UL 746A	0	PLC
HWI	ALL 1.0mm	UL 746A	4	PLC
HWI	ALL 1.5mm	UL 746A	2	PLC
HWI	ALL 2.5mm	UL 746A	2	PLC
HWI	ALL 3.0mm	UL 746A	0	PLC
RTI	Elec ALL 1.0mm	UL 746B	60	°C
RTI	Elec ALL 1.5mm	UL 746B	80	°C
RTI	Elec ALL 2.5mm	UL 746B	80	°C
RTI	Elec ALL 3.0mm	UL 746B	80	°C
RTI	Imp ALL 1.0mm	UL 746B	60	°C
RTI	Imp ALL 1.5mm	UL 746B	80	°C
RTI	Imp ALL 2.5mm	UL 746B	80	°C
RTI	Imp ALL 3.0mm	UL 746B	80	°C
RTI	Str ALL 1.0mm	UL 746B	60	°C
RTI	Str ALL 1.5mm	UL 746B	80	°C
RTI	Str ALL 2.5mm	UL 746B	80	°C
RTI	Str ALL 3.0mm	UL 746B	80	°C
UL	FlameRating ALL 1.0mm	UL94	V-1	
UL	FlameRating ALL 1.5mm	UL94	V-0 5VB	
UL	FlameRating ALL 2.5mm	UL94	V-0 5VA	
UL	FlameRating ALL 3.0mm	UL94	V-0 5VA	
Volume	Resistivity	ASTM D257	1E+15	Ω.cm