

ChiMei

ABS

PA-709H

Product information				
Manufacturer	ChiMei Corporation			
Material Shape	Pellets			
Process	Extrusion molding			
FR	HB			
Material Attribute	Extrusion grade			
Features	Low flowHigh toughnessHigh impact			
Application	Construction ApplicationsIndustrial ApplicationsIndustrial helmetsLuggageHeels			
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
Ball	Indentation Hardness H358/30	ISO 2039	10900	psi
Mechanical behavior	Condition	Standard	Value	Unit
Charpy	Notch Impact	ISO 179	20	ft·lb/in ²
Elongation	Break	ISO 527	30	%
Flexural	Strength 2.0mm/min	ISO 178	7400	psi
Flexural	Modulus 2.0mm/min	ISO 178	218000	psi
Impact	Flexural Test-Notched	ISO 179	11.9	ft·lb/in ²
Izod	Notch Impact	ISO 180	15	ft·lb/in ²
Tensile	Strength Yield	ISO 527	5220	psi
Tensile	Strength Break	ISO 527	4060	psi
Physical property	Condition	Standard	Value	Unit
Density	23°C	ISO 1183	1.03	g/cm ³
Melt	Index 220°C 10kg	ISO 1133	4.0	cm ³ /10min
Thermal	Condition	Standard	Value	Unit
HDT	Unannealed 1.8MPa	ISO 75	187	°F
HDT	Annealed 1.8MPa	ISO 75	205	°F
Vicat	Softening Temperature 120°C/hr 50N	ISO 306	216	°F
Vicat	Softening Temperature 50°C/hr 50N	ISO 306	208	°F
Vicat	Softening Temperature 120°C/hr 10N	ISO 306	223	°F
Vicat	Softening Temperature 50°C/hr 10N	ISO 306	219	°F
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	60	°C
RTI	Elec ALL 3.0mm	UL 746B	60	°C
RTI	Imp ALL 1.5mm	UL 746B	60	°C
RTI	Imp ALL 3.0mm	UL 746B	60	°C
RTI	Str ALL 1.5mm	UL 746B	60	°C
RTI	Str ALL 3.0mm	UL 746B	60	°C
UL	FlameRating ALL 1.5mm	UL94	HB	
UL	FlameRating ALL 3.0mm	UL94	HB	