

Chi Mei® PA-757K

PA - 757K is a pellet - shaped, general - purpose ABS material for injection molding with an HB flame retardancy rating and UL certification, featuring high gloss, high stiffness, and medium impact resistance.

Physical property				Standard	Value	Unit
Density 23°C				ISO 1183	1.04	g/cm³
Density 23°C				ASTM D792	1.05	g/cm³
Melt Index 200°C 5kg				ISO 1133	1.6	cm³/10min
Melt Index 220°C 10kg				ISO 1133	18	cm³/10min
Melt Index 200°C 5kg				ASTM D1238	1.8	g/10min
Hardness				Standard	Value	Unit
Rockwell Hardness R(Scale)				ASTM D785	116	
Rockwell	Hardness R(Scale)	12. 7mm		ASTM D785	116	
Mechanical behavior				Standard	Value	Unit
Tensile Strength 50mm/min				ISO 527	46	MPa
Tensile	Strength 6mm/min	3. 2mm		ASTM D638	480	kg/cm²
Elongation 50mm/min				ISO 527	20	%
Elongation 6mm/min 3.2mm				ASTM D638	20	%
Flexural Strength 2.0mm/min				ISO 178	69	MPa
Flexural Strength 2.8mm/min 6.4mm				ASTM D790	790	kg/cm²
Flexural Modulus 2.0mm/min				ISO 178	2.4	GPa
Flexural	Modulus 2.8mm/min	6.4mm		ASTM D790	27000	kg/cm²
Izod	Notch Impact 23°C 4.0mm			ISO 180	18	kJ/m²
Izod	Notch Impact 23°C 6.4mm			ASTM D256	18	kg-cm/cm
Izod Notch Impact 23°C 3.2mm				ASTM D256	20	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	98	°C
HDT Unannealed 1.8MPa				ISO 75	83	°C
HDT	Annealed 120°C/hr 6.4mm Annealed at 85°C for 8 hours			ASTM D648	99	°C
HDT	Unannealed 120°C/hr 6.4mm			ASTM D648	88	°C
Vicat Softening Temperature 50°C/hr 10N				ISO 306	103	°C
Vicat Softening Temperature 50°C/hr 3.2mm				ASTM D1525	105	°C
Flammability				Standard	Value	Unit
Flame Rating		All Color 1.5mm		UL94	HB	
Flame Rating		All Color 3.0mm		UL94	HB	