

Formosa TAIRILOY AC251T

TAIRILOY AC251T grade PC-ABS by Formosa is a heat-resistant, electroplating-grade material with platable properties, ideal for automotive interior trims, various automotive applications, and metalized products, achieving an HB flame retardancy rating.

Physical property		Standard	Value	Unit
Density	23°C	ASTM D792	1.11	g/cm ³
Shrinkage	3.2mm	ASTM D955	0.4~0.7	%
Melt Index	240°C 5kg	ASTM D1238	5.9	g/10min
Hardness		Standard	Value	Unit
Rockwell Hardness	R(Scale) 23°C	ASTM D785	110	
Mechanical behavior		Standard	Value	Unit
Tensile Strength	23°C 50mm/min	ASTM D638	540	kg/cm ²
Elongation	Break 23°C 50mm/min	ASTM D638	125	%
Flexural Strength	23°C 15mm/min	ASTM D790	1000	kg/cm ²
Flexural Modulus	23°C 15mm/min	ASTM D790	25000	kg/cm ²
Izod Notch Impact	23°C 3.2mm	ASTM D256	70	kg-cm/cm
Thermal		Standard	Value	Unit
HDT	Unannealed 1.8MPa 120°C/hr 6.4mm	ASTM D648	105	°C
Vicat Softening Temperature	Unannealed 50°C/hr	ASTM D1525	115	°C
50N				
Vicat Softening Temperature	Unannealed 50°C/hr	ISO 306	115	°C
50N				
Flammability		Standard	Value	Unit
Flame Rating	All Color 1.5mm	UL94	HB	