

Formosa TAIRIREX® HP825T

Formosa TAIRIREX® HP825T is an HIPS grade suitable for extrusion molding, featuring high flow, odorlessness.

Physical property		Standard	Value	Unit
Density	23°C	ASTM D792	1.04	g/cm³
Shrinkage	3.2mm	ASTM D955	0.4~0.7	%
Monomer Content			500	ppm
Mechanical behavior		Standard	Value	Unit
Tensile Modulus	23°C	ASTM D638	18000	kg/cm²
Tensile Strength	23°C	ASTM D638	230	kg/cm²
Elongation	23°C	ASTM D638	45	%
Flexural Strength	23°C	ASTM D790	400	kg/cm²
Flexural Modulus	23°C	ASTM D790	20000	kg/cm²
Izod Notch Impact	23°C 6.4mm	ASTM D256	11	kg-cm/cm
Thermal		Standard	Value	Unit
HDT	Annealed 3.2mm Annealed at 80°C for 2 hours	ASTM D648	87	°C
Temperature	Vicat Softening Annealed 3.2mm Annealed at 80°C for 2 hours	ASTM D1525	97	°C
Temperature	Vicat Softening Annealed 3.2mm Annealed at 80°C for 2 hours	ISO 306	97	°C
Flammability		Standard	Value	Unit
Flame Rating	All Color 1.5mm	UL94	HB	
Flame Rating	All Color 3.0mm	UL94	HB	
UL		Standard	Value	Unit
UL FlameRating	ALL 1.5mm	UL94	HB	
UL FlameRating	ALL 3.0mm	UL94	HB	
HWI	ALL 1.5mm	UL 746A	4	PLC
HWI	ALL 3.0mm	UL 746A	4	PLC
HAI	ALL 1.5mm	UL 746A	0	PLC
HAI	ALL 3.0mm	UL 746A	0	PLC
RTI Elec	ALL 1.5mm	UL 746B	50	°C
RTI Elec	ALL 3.0mm	UL 746B	50	°C
RTI Imp	ALL 1.5mm	UL 746B	50	°C
RTI Imp	ALL 3.0mm	UL 746B	50	°C
RTI Str	ALL 1.5mm	UL 746B	50	°C
RTI Str	ALL 3.0mm	UL 746B	50	°C
Comparative Tracking Index		IEC 60112	1	PLC
HVTR		UL 746A	2	PLC
Arc Resistance		ASTM D495	5	PLC