

Formosa TAIREX HP825F

Formosa TAIREX HP825F is a material for injection molding (with an HB FR rating), featuring high flow, high tensile strength, high heat - distortion temperature, and being odorless, a general - purpose grade with low monomer residue, applied in electrical panels, terminal blocks, home appliances housings, and TV housings.

Physical property		Standard	Value	Unit
Density	23°C	ASTM D792	1.04	g/cm ³
Melt Index	200°C 5kg	ASTM D1238	9.00	
Monomer Content			700.00	ppm
Mechanical behavior		Standard	Value	Unit
Tensile Modulus	23°C	ASTM D638	24,000.00	kg/cm ²
Tensile Modulus	23°C	ASTM D638	2,352.00	MPa
Tensile Strength	23°C	ASTM D638	280.00	kg/cm ²
Tensile Strength	23°C	ASTM D638	28.00	MPa
Elongation	23°C	ASTM D638	56.00	%
Flexural Strength	23°C	ASTM D790	460.00	kg/cm ²
Flexural Strength	23°C	ASTM D790	45.00	MPa
Flexural Modulus	23°C	ASTM D790	21,000.00	kg/cm ²
Flexural Modulus	23°C	ASTM D790	2,260.00	MPa
Izod Notch Impact	23°C 6.4mm	ASTM D256	12.00	kg-cm/cm
Izod Notch Impact	23°C 6.4mm	ASTM D256	115.00	J/m
Thermal		Standard	Value	Unit
HDT	Annealed 3.2mm Annealed at 80°C for 8 hours	ASTM D648	90.00	°C
Vicat Softening Temperature	Annealed 3.2mm Annealed at 80°C for 2 hours	ASTM D1525	100.00	°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	3.00	PLC
HWI	ALL 3.0mm	UL 746A	3.00	PLC
HAI	ALL 1.5mm	UL 746A	0.00	PLC
HAI	ALL 3.0mm	UL 746A	0.00	PLC
RTI Elec	ALL 1.5mm	UL 746B	50.00	°C
RTI Elec	ALL 3.0mm	UL 746B	50.00	°C
RTI Imp	ALL 1.5mm	UL 746B	50.00	°C
RTI Imp	ALL 3.0mm	UL 746B	50.00	°C
RTI Str	ALL 1.5mm	UL 746B	50.00	°C
RTI Str	ALL 3.0mm	UL 746B	50.00	°C
Comparative Tracking Index		IEC 60112	1.00	PLC
HVTR		UL 746A	1.00	PLC
Arc Resistance		ASTM D495	6.00	PLC