

Formosa TAIRIREX HP825N

Formosa Chemicals TAIRIREX® HIPS HP825N, with an HB flammability rating, is suitable for injection molding processes. It features high tensile strength, a high heat distortion temperature, and is odorless, making it an ideal choice for applications such as electrical panels, terminal blocks, and home appliances housing.

Physical property	Standard	Value	Unit
Density 23°C	ASTM D792	1.04	g/cm ³
Melt Index 200°C 5kg	ASTM D1238	3	
Monomer Content		700	ppm
Mechanical behavior	Standard	Value	Unit
Tensile Modulus 23°C	ASTM D638	22000	kg/cm ²
Tensile Modulus 23°C	ASTM D638	2160	MPa
Tensile Strength 23°C	ASTM D638	250	kg/cm ²
Tensile Strength 23°C	ASTM D638	25	MPa
Elongation 23°C	ASTM D638	52	%
Flexural Strength 23°C	ASTM D790	470	kg/cm ²
Flexural Strength 23°C	ASTM D790	46	MPa
Flexural Modulus 23°C	ASTM D790	22000	kg/cm ²
Flexural Modulus 23°C	ASTM D790	2160	MPa
Izod Notch Impact 23°C 6.4mm	ASTM D256	15	kg-cm/cm
Izod Notch Impact 23°C 6.4mm	ASTM D256	147	J/m
Thermal	Standard	Value	Unit
HDT Annealed 3.2mm Annealed at 80°C for 2 hours	ASTM D648	90	°C
Vicat Softening Temperature Annealed 3.2mm Annealed at 80°C for 2 hours	ASTM D1525	100	°C
Flammability	Standard	Value	Unit
Flame Rating All Color 1.5~1.7mm	UL94	HB	
UL	Standard	Value	Unit
UL FlameRating ALL 1.5~1.7mm	UL94	HB	
HWI ALL 1.5~1.7mm	UL 746A	3	PLC
HAI ALL 1.5~1.7mm	UL 746A	0	PLC
RTI Elec ALL 1.5~1.7mm	UL 746B	50	°C
RTI Imp ALL 1.5~1.7mm	UL 746B	50	°C
RTI Str ALL 1.5~1.7mm	UL 746B	50	°C
Comparative Tracking Index	IEC 60112	0	PLC
HVTR	UL 746A	1	PLC
Arc Resistance	ASTM D495	6	PLC