

Formosa TAIRIREX[®] MP6500

Formosa TAIRIREX[®] MP6500 is an injection - moldable HIPS grade compliant with FR HB standard, boasting high tensile strength, high heat distortion temperature, odorlessness, and low monomer residue, widely applied in appliance components, stationery, clock housing, housewares, and compounding applications.

Physical property	Standard	Value	Unit
Density 23°C	ASTM D792	1.04	g/cm ³
Melt Index 200°C 5kg	ASTM D1238	6.7	
Monomer Content		700	ppm
Mechanical behavior	Standard	Value	Unit
Tensile Modulus 23°C	ASTM D638	24000	kg/cm ²
Tensile Modulus 23°C	ASTM D638	2352	MPa
Tensile Strength 23°C	ASTM D638	290	kg/cm ²
Tensile Strength 23°C	ASTM D638	28	MPa
Elongation 23°C	ASTM D638	40	%
Flexural Strength 23°C	ASTM D790	560	kg/cm ²
Flexural Strength 23°C	ASTM D790	56	MPa
Flexural Modulus 23°C	ASTM D790	25000	kg/cm ²
Flexural Modulus 23°C	ASTM D790	2450	MPa
Izod Notch Impact 23°C 6.4mm	ASTM D256	8	kg-cm/cm
Izod Notch Impact 23°C 6.4mm	ASTM D256	76	J/m
Thermal	Standard	Value	Unit
HDT Annealed 3.2mm Annealed at 80°C for 2 hours	ASTM D648	91	°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	3	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	1	PLC
HVTR	UL 746A	2	PLC
Arc Resistance	ASTM D495	6	PLC