

IHU250H Data Sheet

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Manufacturer : Isuzu Glass Ltd

Material: IHU250H

Standard thickness: 1.0mm

Optical properties	Reflective index		Measurement method: In accordance with ISO 21395 Series (JIS B 7071 Series)	
	n334.15	1.53025		
	ni	1.52374		
	nh	1.51747		
	ng	1.51393		
	nF	1.50953		
	ne	1.50579		
	nd	1.50383		
	nHe-Ne	1.50119		
	nC	1.50129		
	nr	1.49972		
	ns	1.49634		
	nt	1.49401		
	Abbe Value vd	61.19		
	Dispersion nF-nC	0.00823		
Thermal properties	Transmittance 400-650ave	92.133 %	T=UV50%(λ): 246.7(nm)	
	Reflectance 400-650ave	4.021 %		
	Softening point Mp	563.0 °C		
	Transition point Tg	466.8 °C		
	Yield point At	525.3 °C		
	Expansion coefficient (×10 ⁻⁷ /°C)	79.09		
	Specific heat	0.86	J/(gK)	
Mechanical properties	Thermal conductivity	0.93	W/m·k(kcal/mh°C)	
	Abrasion degree	—		
	Vickers hardness	440 HV 0.3		
	Young's modulus 10 ¹⁰ N/m ²	5.68	Longitudinal sound velocity: 5520m/sec Transverse wave velocity: 3140m/sec	
	Poisson's ratio	0.26		
	Specific gravity	2.286		
	modulus of rigidity 10 ¹⁰ N/m ²	2.25		
Reliability	Hydrolytic Resistance	Class 3		
	Resistance to acids	Class 3		
	Resistance to UV(T: 400nm λ)	≤1%	Attenuation Rate (High Pressure Mercury Lamp 1.5kw 1000Hr)	
RoHS Compliant Hazardous Substances		non		

nm	Standard Material (T=1.0mm)		UV Radiation Test Result				
			Before test	1H	24H	300H	Attenuation Rate
	%T	Ti	%T	%T	%T	%T	Start→Finish
250	58.724	0.651	56.706	54.283	51.595	46.854	-9.01%
270	84.039	0.927	83.200	80.611	78.348	75.344	-5.83%
300	89.266	0.980	88.497	87.549	86.669	84.371	-2.07%
310	89.979	0.985	89.289	88.698	88.375	85.970	-1.02%
320	90.668	0.992	89.976	89.328	89.157	86.771	-0.91%
330	90.960	0.994	90.375	90.182	89.596	87.590	-0.86%
350	91.543	0.999	92.080	90.908	90.551	88.254	-1.66%
400	91.816	0.999	92.238	91.939	91.438	89.816	-0.87%
500	92.094	0.998	92.536	92.323	92.022	90.984	-0.56%
600	92.255	0.998	92.588	92.527	92.312	91.521	-0.30%
800	92.403	0.998	92.587	92.728	92.489	91.812	-0.11%
1000	92.438	0.997	92.228	92.845	92.657	92.100	0.47%
1200	92.455	0.996	92.423	93.138	92.715	92.367	0.32%
T=50%(λ)	246.7	244.9	247.5	248.4	249.4	251.3	-1.9 (nm)

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