

Product Datasheet: Dragontrail STAR2 Cover Glass Substrate

Mechanical property	Density [g/cm ³]		2.49
	Young's Modulus [GPa]		86
	Shear Modulus [GPa]		36
	Poisson's Ratio		0.21
	Vickers hardness (before CS) [kgf/mm ²]		640
	Vickers hardness (after CS) [kgf/mm ²]		720
Thermal property	CTE (50-350°C) [x10 ⁻⁷ /°C]		79
	Softening Point [°C]		777
	Annealing Point [°C]		561
	Strain Point [°C]		518
Optical property	Refractive Index		1.53 (596nm)
			1.54 (365nm)
	Photoelastic constant [nm/cm/MPa]		27.9 (596nm)
			30.8 (365nm) for FSM-6000 Series(UV)
Electrical property	Dielectric constant Loss tangent	1M Hz	7.3 0.006
		2400MHz	6.8 0.009
Chemical durability	Weight loss [mg/cm ²]	HCl 0.1mol/l 90°C for 20hrs.	0.00
		NaOH 0.1mol/l 90°C for 20hrs.	0.34
		HF 5% 25°C for 20min.	7.66

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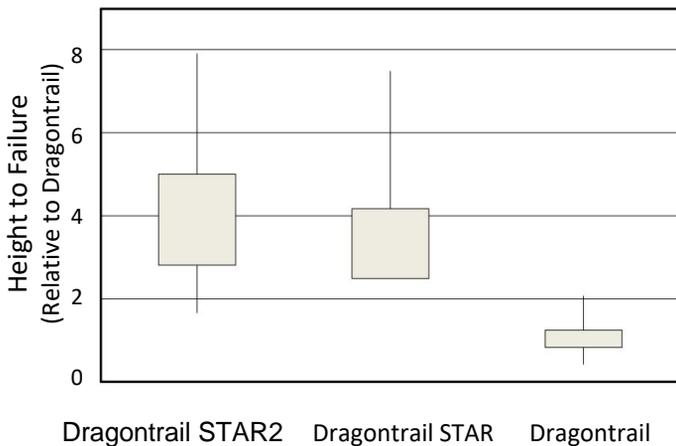
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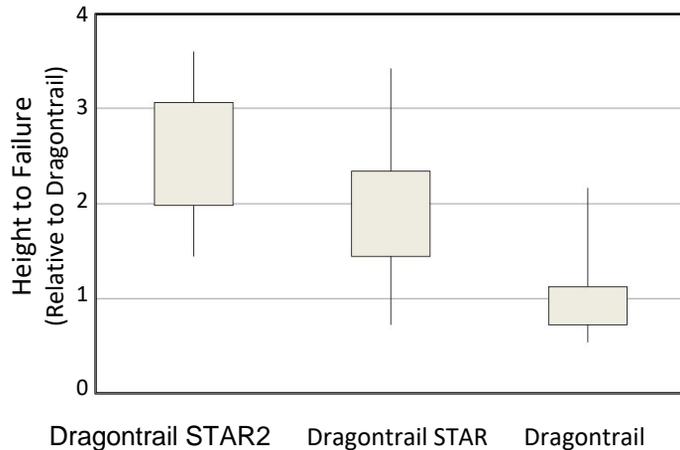
Application	Typical CS value	Typical DOC value
Coverglass	900 MPa	120 μm (t=0.7mm)

*The above values represent the data obtained after chemical strengthening using our recipe at the glass processor.

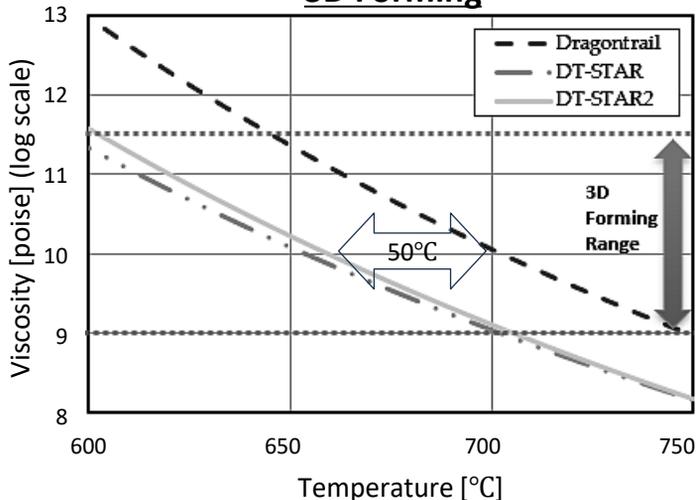
Sandpaper(SiC#80) SET Drop test



Sandpaper(SiC#180) SET Drop test

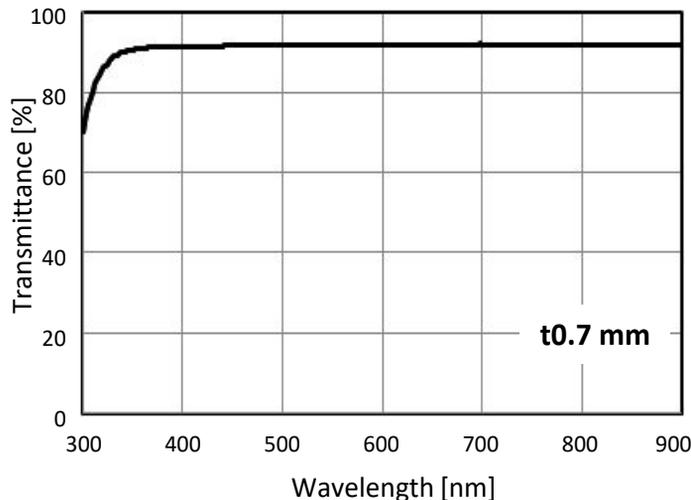


3D Forming



* The relationship between glass viscosity and temperature for forming. Dragontrail STAR2 has a glass forming temperature **approximately 50°C lower** than Dragontrail, making it a more easily formable glass.

Transmittance



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