Specification Physical and chemical properties			**PCE** **ARTISTA®**
2.	**Thermal properties**		
2.1	**Viscosities and corresponding temperatures**		
	Designation	Viscosity lg η in dPas	Temperature ϑ in °C
	Strain point	14.5	**480** to **510*** (~896 °F to 950 °F)*
	Annealing point	13.0	**515** to **541*** (~959 °F to 1006 °F)*
	Softening point	7.6	**705** to **735*** (~1301 °F to 1355 °F)*
	Forming temperature	6.0	**805** to **835*** (~1481 °F to 1535 °F)*
	Forming temperature	5.0	**900** to **920*** (~1652 °F to 1688 °F)*
	Forming temperature	4.0	**1015** to **1035*** (~1859 °F to 1895 °F)*
2.2	**Transformation temperature *Tg* in °C**		**505** to **530*** (~941 °F to 986 °F)*
2.3	**Coefficient of thermal expansion α**		
2.3.1	**Coefficient of mean linear thermal expansion α (20 °C;300 °C) in 10^{-6} K^{-1}** (Static measurement)		9.4*
2.4	**Fuseability**		
	Fusing ARTISTA® glasstypes amongst each other using an adapted temperature / time programme results in a technically stressfree compound with a maximum stress birefringence of 70 nm/cm.		
3.	**Mechanical properties**		
3.1	**Density ρ in g/cm³** (annealed at 40 °C/h)		2.5*
3.2	**Stress optical coefficient *C* in 1.02 ·10^{-12} m²/N**		◊
3.3	**Breaking strength**		
	Admissible value for the bending strength σ_{zul} of technically annealed glasses as calculation basis (air) in N/mm²		30

*With the exception of red 8010 dark (Rot 8010 dkl.) all values refer to all glass types

Form 0050/7B