

Specification		PCP ARTISTA®
Physical and chemical properties		
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 T_g 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 $\alpha(20\text{ °C};300\text{ °C})$ 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 $1.02 \cdot 10^{-12}\text{ m}^2/\text{N}$		◇
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		