

<b>Specification</b>		<b>PCE ARTISTA</b>																					
Physical and chemical properties																							
<b>2.</b>	<b>Thermal properties</b>																						
<b>2.1</b>	<b>Viscosities and corresponding temperatures</b>																						
	<table border="1"> <thead> <tr> <th>Designation</th> <th>Viscosity lg in dPas</th> <th>Temperature in °C</th> </tr> </thead> <tbody> <tr> <td>Strain point</td> <td>14.5</td> <td><b>480 to 510*</b> (-896 °F to 950 °F)*</td> </tr> <tr> <td>Annealing point</td> <td>13.0</td> <td><b>515 to 541*</b> (-959 °F to 1006 °F)*</td> </tr> <tr> <td>Softening point</td> <td>7.6</td> <td><b>705 to 735*</b> (~1301 °F to 1355 °F)*</td> </tr> <tr> <td>Forming temperature</td> <td>6.0</td> <td><b>805 to 835*</b> ( )</td> </tr> <tr> <td>Forming temperature</td> <td>5.0</td> <td><b>900 to 920*</b> (~1652 °F to 1688 °F)*</td> </tr> <tr> <td>Forming temperature</td> <td>4.0</td> <td><b>1015 to 1035*</b> (~1859 °F to 1895 °F)*</td> </tr> </tbody> </table>	Designation	Viscosity lg in dPas	Temperature in °C	Strain point	14.5	<b>480 to 510*</b> (-896 °F to 950 °F)*	Annealing point	13.0	<b>515 to 541*</b> (-959 °F to 1006 °F)*	Softening point	7.6	<b>705 to 735*</b> (~1301 °F to 1355 °F)*	Forming temperature	6.0	<b>805 to 835*</b> ( )	Forming temperature	5.0	<b>900 to 920*</b> (~1652 °F to 1688 °F)*	Forming temperature	4.0	<b>1015 to 1035*</b> (~1859 °F to 1895 °F)*	
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<b>2.2</b>	<b>Transformation temperature <math>T_g</math> in °C</b>	<b>505 to 530*</b> (-941 °F to 986 °F)*																					
<b>2.3</b>	<b>Coefficient of thermal expansion</b>																						
<b>2.3.1</b>	<b>Coefficient of mean linear thermal expansion (20 °C;300 °C) in <math>10^{-6} K^{-1}</math> (Static measurement)</b>	9.4*																					
<b>2.4</b>	<b>Fuseability</b>																						
	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.																						
<b>3.</b>	<b>Mechanical properties</b>																						
<b>3.1</b>	<b>Density in <math>g/cm^3</math> (annealed at 40 °C/h)</b>	2.5*																					
<b>3.2</b>	<b>Stress optical coefficient <math>C</math> in <math>1.02 \cdot 10^{-12} m^2/N</math></b>																						
<b>3.3</b>	<b>Breaking strength</b>																						
	Admissible value for the bending strength $\sigma_{zul}$ of technically annealed glasses as calculation basis (air) in $N/mm^2$	30																					
*With the exception of red 8010 dark (Rot 8010 dkl.) all values refer to all glass types																							

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