

Glass Type/Application	Amber glass Pharmaceutical primary packaging for oralis and solid dosage																		
Physical Data (approx. value)	<p>Coefficient of mean linear thermal expansion $\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ acc. to ISO 7991 $7.8 \cdot 10^{-6} \text{K}^{-1}$</p> <p>Transformation Temperature T_g $535 \text{ }^{\circ}\text{C}$</p> <p>Glass temperature at viscosity η in $\text{dPa} \cdot \text{s}$</p> <p>$10^{13}$ (annealing point)..... $540 \text{ }^{\circ}\text{C}$</p> <p>$10^{7.6}$ (softening point) $720 \text{ }^{\circ}\text{C}$</p> <p>$10^4$ (working point) $1050 \text{ }^{\circ}\text{C}$</p> <p>Density ρ at 25°C $2.50 \text{ g} \cdot \text{cm}^{-3}$</p>																		
Chemical Data	<p>Hydrolytic resistance</p> <p>acc. to ISO 719 Class HGB 2</p> <p>acc. to Ph. Eur. Type III</p> <p>acc. to USP..... Type III</p> <p>Acid resistance (DIN 12116) Class S 2</p> <p>Alkali resistance (ISO 695) Class A 2</p>																		
Chemical Composition (main components in approx. weight %)	<table border="0"> <tr> <td>SiO₂</td> <td>B₂O₃</td> <td>Al₂O₃</td> <td>Fe₂O₃</td> <td>Na₂O</td> <td>K₂O</td> <td>BaO</td> <td>CaO</td> <td>MnO₂</td> </tr> <tr> <td>67</td> <td>5</td> <td>7</td> <td>2</td> <td>12</td> <td>1</td> <td>< 0.5</td> <td>1</td> <td>5</td> </tr> </table> <p>The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm.</p>	SiO ₂	B ₂ O ₃	Al ₂ O ₃	Fe ₂ O ₃	Na ₂ O	K ₂ O	BaO	CaO	MnO ₂	67	5	7	2	12	1	< 0.5	1	5
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Transmission
(exemplary spectrum)

