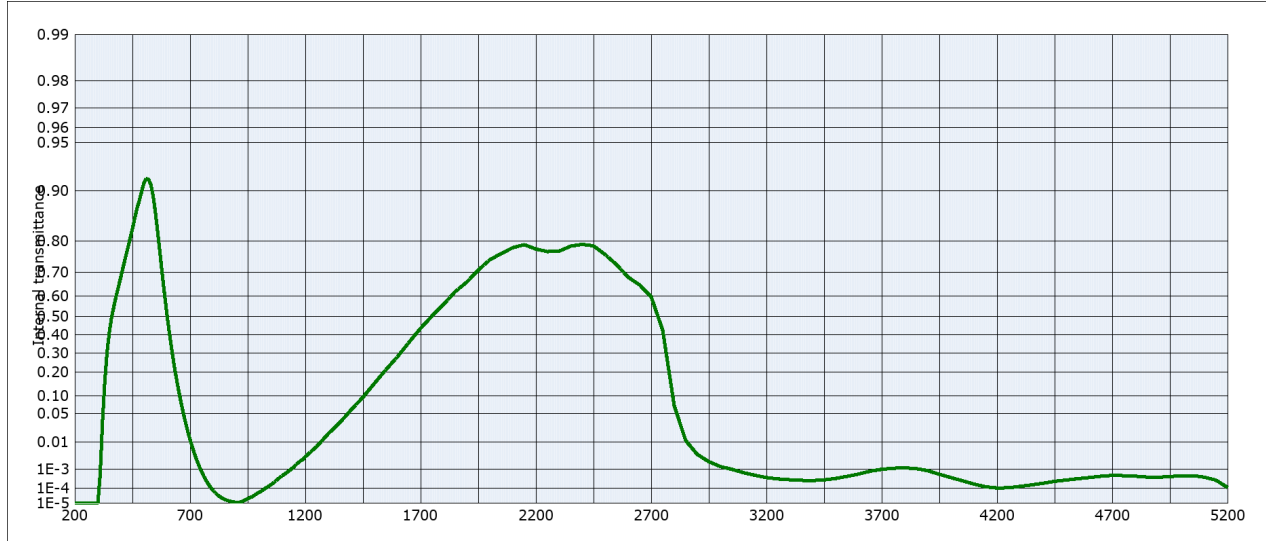


# DATA SHEET

# SCHOTT BG18

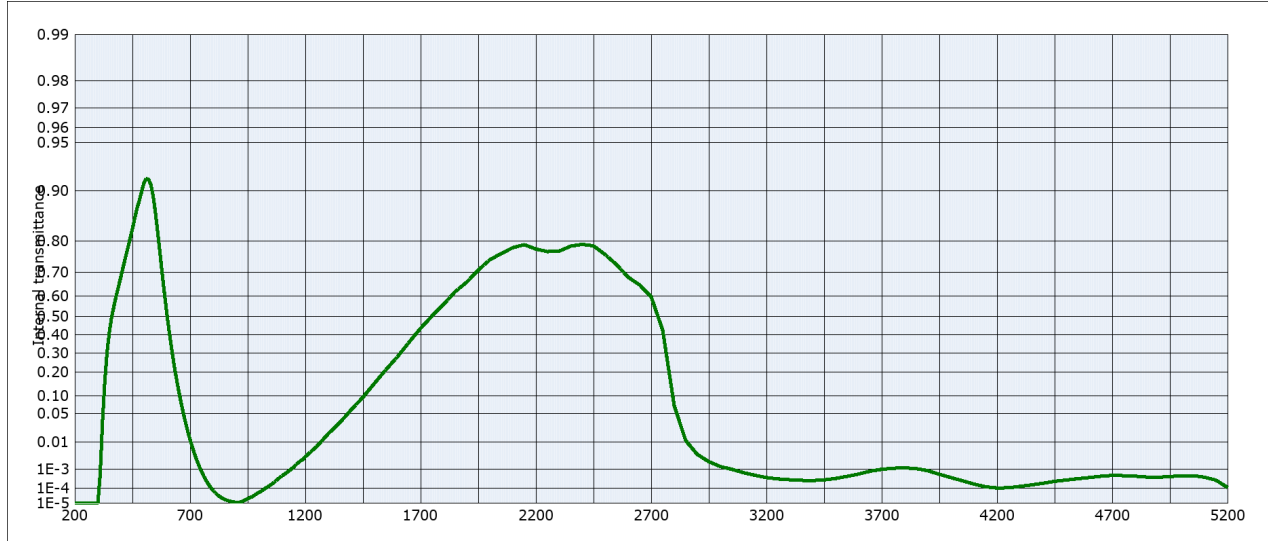


**Internal transmittance  $\tau_i$  at reference thickness  $d = 1$  mm**  
The internal transmittance values, tabulated and graphically represented, are reference values only

| $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            |
|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|
| 200            | $< 10^{-5}$         | 500            | 0.911               | 800            | $7.6 \cdot 10^{-5}$ | 1100           | $5.0 \cdot 10^{-4}$ | 2200           | 0.777               | 3700           | $1.0 \cdot 10^{-3}$ |
| 210            | $< 10^{-5}$         | 510            | 0.916               | 810            | $5.2 \cdot 10^{-5}$ | 1110           | $6.0 \cdot 10^{-4}$ | 2250           | 0.769               | 3750           | $1.1 \cdot 10^{-3}$ |
| 220            | $< 10^{-5}$         | 520            | 0.915               | 820            | $3.8 \cdot 10^{-5}$ | 1120           | $7.1 \cdot 10^{-4}$ | 2300           | 0.770               | 3800           | $1.2 \cdot 10^{-3}$ |
| 230            | $< 10^{-5}$         | 530            | 0.908               | 830            | $2.9 \cdot 10^{-5}$ | 1130           | $8.6 \cdot 10^{-4}$ | 2350           | 0.785               | 3850           | $1.1 \cdot 10^{-3}$ |
| 240            | $< 10^{-5}$         | 540            | 0.892               | 840            | $2.3 \cdot 10^{-5}$ | 1140           | $1.1 \cdot 10^{-3}$ | 2400           | 0.790               | 3900           | $8.6 \cdot 10^{-4}$ |
| 250            | $< 10^{-5}$         | 550            | 0.863               | 850            | $1.9 \cdot 10^{-5}$ | 1150           | $1.3 \cdot 10^{-3}$ | 2450           | 0.786               | 3950           | $5.8 \cdot 10^{-4}$ |
| 260            | $< 10^{-5}$         | 560            | 0.819               | 860            | $1.7 \cdot 10^{-5}$ | 1160           | $1.6 \cdot 10^{-3}$ | 2500           | 0.760               | 4000           | $4.0 \cdot 10^{-4}$ |
| 270            | $< 10^{-5}$         | 570            | 0.761               | 870            | $1.5 \cdot 10^{-5}$ | 1170           | $1.9 \cdot 10^{-3}$ | 2550           | 0.726               | 4050           | $2.7 \cdot 10^{-4}$ |
| 280            | $< 10^{-5}$         | 580            | 0.686               | 880            | $1.3 \cdot 10^{-5}$ | 1180           | $2.3 \cdot 10^{-3}$ | 2600           | 0.680               | 4100           | $1.8 \cdot 10^{-4}$ |
| 290            | $< 10^{-5}$         | 590            | 0.600               | 890            | $1.2 \cdot 10^{-5}$ | 1190           | $2.6 \cdot 10^{-3}$ | 2650           | 0.648               | 4150           | $1.3 \cdot 10^{-4}$ |
| 300            | $< 10^{-5}$         | 600            | 0.506               | 900            | $1.2 \cdot 10^{-5}$ | 1200           | $3.3 \cdot 10^{-3}$ | 2700           | 0.596               | 4200           | $1.1 \cdot 10^{-4}$ |
| 310            | $5.6 \cdot 10^{-4}$ | 610            | 0.411               | 910            | $1.2 \cdot 10^{-5}$ | 1250           | $7.5 \cdot 10^{-3}$ | 2750           | 0.426               | 4250           | $1.1 \cdot 10^{-4}$ |
| 320            | $3.3 \cdot 10^{-2}$ | 620            | 0.322               | 920            | $1.3 \cdot 10^{-5}$ | 1300           | $1.8 \cdot 10^{-2}$ | 2800           | $7.0 \cdot 10^{-2}$ | 4300           | $1.3 \cdot 10^{-4}$ |
| 330            | 0.156               | 630            | 0.242               | 930            | $1.5 \cdot 10^{-5}$ | 1350           | $3.3 \cdot 10^{-2}$ | 2850           | $1.1 \cdot 10^{-2}$ | 4350           | $1.6 \cdot 10^{-4}$ |
| 340            | 0.305               | 640            | 0.175               | 940            | $1.8 \cdot 10^{-5}$ | 1400           | $6.0 \cdot 10^{-2}$ | 2900           | $4.0 \cdot 10^{-3}$ | 4400           | $2.0 \cdot 10^{-4}$ |
| 350            | 0.416               | 650            | 0.122               | 950            | $2.1 \cdot 10^{-5}$ | 1450           | $9.6 \cdot 10^{-2}$ | 2950           | $2.1 \cdot 10^{-3}$ | 4450           | $2.6 \cdot 10^{-4}$ |
| 360            | 0.497               | 660            | $8.2 \cdot 10^{-2}$ | 960            | $2.6 \cdot 10^{-5}$ | 1500           | 0.150               | 3000           | $1.3 \cdot 10^{-3}$ | 4500           | $3.0 \cdot 10^{-4}$ |
| 370            | 0.552               | 670            | $5.3 \cdot 10^{-2}$ | 970            | $3.0 \cdot 10^{-5}$ | 1550           | 0.214               | 3050           | $1.0 \cdot 10^{-3}$ | 4550           | $3.5 \cdot 10^{-4}$ |
| 380            | 0.603               | 680            | $3.3 \cdot 10^{-2}$ | 980            | $3.7 \cdot 10^{-5}$ | 1600           | 0.280               | 3100           | $7.0 \cdot 10^{-4}$ | 4600           | $4.0 \cdot 10^{-4}$ |
| 390            | 0.643               | 690            | $2.0 \cdot 10^{-2}$ | 990            | $4.8 \cdot 10^{-5}$ | 1650           | 0.359               | 3150           | $5.2 \cdot 10^{-4}$ | 4650           | $4.7 \cdot 10^{-4}$ |
| 400            | 0.682               | 700            | $1.2 \cdot 10^{-2}$ | 1000           | $5.8 \cdot 10^{-5}$ | 1700           | 0.436               | 3200           | $4.0 \cdot 10^{-4}$ | 4700           | $5.1 \cdot 10^{-4}$ |
| 410            | 0.719               | 710            | $7.0 \cdot 10^{-3}$ | 1010           | $7.1 \cdot 10^{-5}$ | 1750           | 0.502               | 3250           | $3.4 \cdot 10^{-4}$ | 4750           | $5.0 \cdot 10^{-4}$ |
| 420            | 0.751               | 720            | $4.0 \cdot 10^{-3}$ | 1020           | $8.8 \cdot 10^{-5}$ | 1800           | 0.560               | 3300           | $3.1 \cdot 10^{-4}$ | 4800           | $4.7 \cdot 10^{-4}$ |
| 430            | 0.780               | 730            | $2.3 \cdot 10^{-3}$ | 1030           | $1.1 \cdot 10^{-4}$ | 1850           | 0.619               | 3350           | $2.9 \cdot 10^{-4}$ | 4850           | $4.3 \cdot 10^{-4}$ |
| 440            | 0.806               | 740            | $1.3 \cdot 10^{-3}$ | 1040           | $1.3 \cdot 10^{-4}$ | 1900           | 0.660               | 3400           | $2.8 \cdot 10^{-4}$ | 4900           | $4.2 \cdot 10^{-4}$ |
| 450            | 0.830               | 750            | $7.7 \cdot 10^{-4}$ | 1050           | $1.6 \cdot 10^{-4}$ | 1950           | 0.707               | 3450           | $3.0 \cdot 10^{-4}$ | 4950           | $4.5 \cdot 10^{-4}$ |
| 460            | 0.853               | 760            | $4.6 \cdot 10^{-4}$ | 1060           | $2.0 \cdot 10^{-4}$ | 2000           | 0.743               | 3500           | $3.6 \cdot 10^{-4}$ | 5000           | $5.0 \cdot 10^{-4}$ |
| 470            | 0.872               | 770            | $2.8 \cdot 10^{-4}$ | 1070           | $2.6 \cdot 10^{-4}$ | 2050           | 0.763               | 3550           | $4.6 \cdot 10^{-4}$ | 5050           | $5.0 \cdot 10^{-4}$ |
| 480            | 0.885               | 780            | $1.7 \cdot 10^{-4}$ | 1080           | $3.3 \cdot 10^{-4}$ | 2100           | 0.781               | 3600           | $6.0 \cdot 10^{-4}$ | 5100           | $4.2 \cdot 10^{-4}$ |
| 490            | 0.899               | 790            | $1.1 \cdot 10^{-4}$ | 1090           | $4.1 \cdot 10^{-4}$ | 2150           | 0.789               | 3650           | $8.2 \cdot 10^{-4}$ | 5150           | $2.9 \cdot 10^{-4}$ |

# DATA SHEET

# SCHOTT BG18



**Internal transmittance  $\tau_i$  at reference thickness  $d = 1$  mm**  
The internal transmittance values, tabulated and graphically represented, are reference values only

| $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            | $\lambda$ [nm] | $\tau_i$            |
|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|
| 200            | $< 10^{-5}$         | 500            | 0.911               | 800            | $7.6 \cdot 10^{-5}$ | 1100           | $5.0 \cdot 10^{-4}$ | 2200           | 0.777               | 3700           | $1.0 \cdot 10^{-3}$ |
| 210            | $< 10^{-5}$         | 510            | 0.916               | 810            | $5.2 \cdot 10^{-5}$ | 1110           | $6.0 \cdot 10^{-4}$ | 2250           | 0.769               | 3750           | $1.1 \cdot 10^{-3}$ |
| 220            | $< 10^{-5}$         | 520            | 0.915               | 820            | $3.8 \cdot 10^{-5}$ | 1120           | $7.1 \cdot 10^{-4}$ | 2300           | 0.770               | 3800           | $1.2 \cdot 10^{-3}$ |
| 230            | $< 10^{-5}$         | 530            | 0.908               | 830            | $2.9 \cdot 10^{-5}$ | 1130           | $8.6 \cdot 10^{-4}$ | 2350           | 0.785               | 3850           | $1.1 \cdot 10^{-3}$ |
| 240            | $< 10^{-5}$         | 540            | 0.892               | 840            | $2.3 \cdot 10^{-5}$ | 1140           | $1.1 \cdot 10^{-3}$ | 2400           | 0.790               | 3900           | $8.6 \cdot 10^{-4}$ |
| 250            | $< 10^{-5}$         | 550            | 0.863               | 850            | $1.9 \cdot 10^{-5}$ | 1150           | $1.3 \cdot 10^{-3}$ | 2450           | 0.786               | 3950           | $5.8 \cdot 10^{-4}$ |
| 260            | $< 10^{-5}$         | 560            | 0.819               | 860            | $1.7 \cdot 10^{-5}$ | 1160           | $1.6 \cdot 10^{-3}$ | 2500           | 0.760               | 4000           | $4.0 \cdot 10^{-4}$ |
| 270            | $< 10^{-5}$         | 570            | 0.761               | 870            | $1.5 \cdot 10^{-5}$ | 1170           | $1.9 \cdot 10^{-3}$ | 2550           | 0.726               | 4050           | $2.7 \cdot 10^{-4}$ |
| 280            | $< 10^{-5}$         | 580            | 0.686               | 880            | $1.3 \cdot 10^{-5}$ | 1180           | $2.3 \cdot 10^{-3}$ | 2600           | 0.680               | 4100           | $1.8 \cdot 10^{-4}$ |
| 290            | $< 10^{-5}$         | 590            | 0.600               | 890            | $1.2 \cdot 10^{-5}$ | 1190           | $2.6 \cdot 10^{-3}$ | 2650           | 0.648               | 4150           | $1.3 \cdot 10^{-4}$ |
| 300            | $< 10^{-5}$         | 600            | 0.506               | 900            | $1.2 \cdot 10^{-5}$ | 1200           | $3.3 \cdot 10^{-3}$ | 2700           | 0.596               | 4200           | $1.1 \cdot 10^{-4}$ |
| 310            | $5.6 \cdot 10^{-4}$ | 610            | 0.411               | 910            | $1.2 \cdot 10^{-5}$ | 1250           | $7.5 \cdot 10^{-3}$ | 2750           | 0.426               | 4250           | $1.1 \cdot 10^{-4}$ |
| 320            | $3.3 \cdot 10^{-2}$ | 620            | 0.322               | 920            | $1.3 \cdot 10^{-5}$ | 1300           | $1.8 \cdot 10^{-2}$ | 2800           | $7.0 \cdot 10^{-2}$ | 4300           | $1.3 \cdot 10^{-4}$ |
| 330            | 0.156               | 630            | 0.242               | 930            | $1.5 \cdot 10^{-5}$ | 1350           | $3.3 \cdot 10^{-2}$ | 2850           | $1.1 \cdot 10^{-2}$ | 4350           | $1.6 \cdot 10^{-4}$ |
| 340            | 0.305               | 640            | 0.175               | 940            | $1.8 \cdot 10^{-5}$ | 1400           | $6.0 \cdot 10^{-2}$ | 2900           | $4.0 \cdot 10^{-3}$ | 4400           | $2.0 \cdot 10^{-4}$ |
| 350            | 0.416               | 650            | 0.122               | 950            | $2.1 \cdot 10^{-5}$ | 1450           | $9.6 \cdot 10^{-2}$ | 2950           | $2.1 \cdot 10^{-3}$ | 4450           | $2.6 \cdot 10^{-4}$ |
| 360            | 0.497               | 660            | $8.2 \cdot 10^{-2}$ | 960            | $2.6 \cdot 10^{-5}$ | 1500           | 0.150               | 3000           | $1.3 \cdot 10^{-3}$ | 4500           | $3.0 \cdot 10^{-4}$ |
| 370            | 0.552               | 670            | $5.3 \cdot 10^{-2}$ | 970            | $3.0 \cdot 10^{-5}$ | 1550           | 0.214               | 3050           | $1.0 \cdot 10^{-3}$ | 4550           | $3.5 \cdot 10^{-4}$ |
| 380            | 0.603               | 680            | $3.3 \cdot 10^{-2}$ | 980            | $3.7 \cdot 10^{-5}$ | 1600           | 0.280               | 3100           | $7.0 \cdot 10^{-4}$ | 4600           | $4.0 \cdot 10^{-4}$ |
| 390            | 0.643               | 690            | $2.0 \cdot 10^{-2}$ | 990            | $4.8 \cdot 10^{-5}$ | 1650           | 0.359               | 3150           | $5.2 \cdot 10^{-4}$ | 4650           | $4.7 \cdot 10^{-4}$ |
| 400            | 0.682               | 700            | $1.2 \cdot 10^{-2}$ | 1000           | $5.8 \cdot 10^{-5}$ | 1700           | 0.436               | 3200           | $4.0 \cdot 10^{-4}$ | 4700           | $5.1 \cdot 10^{-4}$ |
| 410            | 0.719               | 710            | $7.0 \cdot 10^{-3}$ | 1010           | $7.1 \cdot 10^{-5}$ | 1750           | 0.502               | 3250           | $3.4 \cdot 10^{-4}$ | 4750           | $5.0 \cdot 10^{-4}$ |
| 420            | 0.751               | 720            | $4.0 \cdot 10^{-3}$ | 1020           | $8.8 \cdot 10^{-5}$ | 1800           | 0.560               | 3300           | $3.1 \cdot 10^{-4}$ | 4800           | $4.7 \cdot 10^{-4}$ |
| 430            | 0.780               | 730            | $2.3 \cdot 10^{-3}$ | 1030           | $1.1 \cdot 10^{-4}$ | 1850           | 0.619               | 3350           | $2.9 \cdot 10^{-4}$ | 4850           | $4.3 \cdot 10^{-4}$ |
| 440            | 0.806               | 740            | $1.3 \cdot 10^{-3}$ | 1040           | $1.3 \cdot 10^{-4}$ | 1900           | 0.660               | 3400           | $2.8 \cdot 10^{-4}$ | 4900           | $4.2 \cdot 10^{-4}$ |
| 450            | 0.830               | 750            | $7.7 \cdot 10^{-4}$ | 1050           | $1.6 \cdot 10^{-4}$ | 1950           | 0.707               | 3450           | $3.0 \cdot 10^{-4}$ | 4950           | $4.5 \cdot 10^{-4}$ |
| 460            | 0.853               | 760            | $4.6 \cdot 10^{-4}$ | 1060           | $2.0 \cdot 10^{-4}$ | 2000           | 0.743               | 3500           | $3.6 \cdot 10^{-4}$ | 5000           | $5.0 \cdot 10^{-4}$ |
| 470            | 0.872               | 770            | $2.8 \cdot 10^{-4}$ | 1070           | $2.6 \cdot 10^{-4}$ | 2050           | 0.763               | 3550           | $4.6 \cdot 10^{-4}$ | 5050           | $5.0 \cdot 10^{-4}$ |
| 480            | 0.885               | 780            | $1.7 \cdot 10^{-4}$ | 1080           | $3.3 \cdot 10^{-4}$ | 2100           | 0.781               | 3600           | $6.0 \cdot 10^{-4}$ | 5100           | $4.2 \cdot 10^{-4}$ |
| 490            | 0.899               | 790            | $1.1 \cdot 10^{-4}$ | 1090           | $4.1 \cdot 10^{-4}$ | 2150           | 0.789               | 3650           | $8.2 \cdot 10^{-4}$ | 5150           | $2.9 \cdot 10^{-4}$ |