

## DATA SHEET SCHOTT GG475



SCHOTT		GG475	
Reflection factor P <sub>d</sub> 0.91 Bubble content Bubble class 3 Chemical resistance FR class 3 SR class 4.4 AR class 1.0	$\begin{array}{lll} \textbf{Density} \\ \rho \left[ g/cm^3 \right] & 2.75 \\ \textbf{Transformation temperature} \\ \textbf{Tg} \left[ {}^{\circ}\textbf{C} \right] & 594 \\ \textbf{Thermal expansion} \\ \alpha_{.30/470^{\circ}\textbf{C}} \left[ 10^{.6}/\textbf{K} \right] & 9.8 \\ \alpha_{.20/300^{\circ}\textbf{C}} \left[ 10^{.0}/\textbf{K} \right] & 10.6 \\ \textbf{Temperature coefficient} \\ \textbf{T}_{\textbf{k}} \left[ \text{nm/}^{\circ}\textbf{C} \right] & 0.09 \\ \end{array}$	Per DIN 58191 Per DIN 58191 Colloidally colored	LP 475 glass
folerances for long pass filters for thickness d = 3 mm	Transmittance $\tau$ and internal trans $\lambda$ [nm] $\tau$ $\tau_{\rm i}$	mittance τ <sub>i</sub> at d = 3 mn λ[nm] τ	n τ <sub>i</sub>
$t_{C}(\tau_{i} = 0.5 \text{ mm}) \text{ [nm]}$ 475±6 $t_{S}(\tau_{iS} = 1.10^{-6}) \text{ [nm]}$ 430 $t_{p}(\tau_{ip} = 0.99) \text{ [nm]}$ 530	200 <1.10-5 <1.10-5 210 <1.10-5 <1.10-5 220 <1.10-5 <1.10-5 230 <1.10-5 <1.10-5 240 <1.10-5 <1.10-5 250 <1.10-5 <1.10-5 260 <1.10-5 <1.10-5 270 <1.10-5 <1.10-5	700 0.91 710 0.91 720 0.91 730 0.91 740 0.91 750 0.91 760 0.91 770 0.91	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
tefractive index n . [nm] Element n .87.6 He 1.54 .52.1 Cs 1.53 .014 Hg 1.53	280 <1.10.6 <1.10.6 290 <1.10.5 <1.10.6 300 <1.10.6 <1.10.6 310 <1.10.6 <1.10.6 320 <1.10.6 <1.10.6 330 <1.10.6 <1.10.6 330 <1.10.6 <1.10.6 340 <1.10.6 <1.10.6 350 <1.10.6 <1.10.6	780 0.91 790 0.91 800 0.91 850 0.91 900 0.91 950 0.91 1000 0.91	1.00 1.00 1.00 1.00 1.00 1.00 1.00
Tristimulus values  d	360	1060 0.91 1100 0.91 1200 0.91 1300 0.91 1400 0.91 1500 0.91 1500 0.91 1700 0.91 1800 0.91 1800 0.90 2000 0.90 2100 0.90 2200 0.89 2300 0.88 2400 0.87 2500 0.86 2600 0.83	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Application notes Long pass filter see section 6.7.1	520         0.90         0.99           530         0.91         1.00           540         0.91         1.00           550         0.91         1.00           560         0.91         1.00           570         0.91         1.00           580         0.91         1.00           600         0.91         1.00           610         0.91         1.00           620         0.91         1.00           630         0.91         1.00           640         0.91         1.00           650         0.91         1.00           660         0.91         1.00           670         0.91         1.00           680         0.91         1.00           690         0.91         1.00	2700 0.80 2800 0.25 2900 0.15 3000 0.11 3200 0.08 3400 0.07 3600 0.05 3800 0.05 4000 0.08 4200 0.06 4400 0.03 4600 9·10·4 4800 <1·10·5 5200 <1·10·5	0.88 0.27 0.16 0.12 0.09 0.08 0.06 0.06 0.07 0.07 0.03 0.001 <1.10-5 <1.10-5

WHILE EVERY ATTEMPT HAS BEEN MADE TO VERIFY THE SOURCE OF THE INFORMATION, NO RESPONSIBILITY IS ACCEPTED FOR ACCURACY OF DATA.

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