

Schott Glass 8516 Sealing Glass

Category : Ceramic , Glass

Material Notes:

Sealing glass for Fe-Ni alloys, high IR-absorbing, lead-free, of poor evaporation Reed switches The heavy metal content for the elements lead, cadmium, mercury, and hexavalent chromium is below 100 ppm Information provided by SCHOTT AG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-Glass-8516-Sealing-Glass.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------------------------|---|----------|
| Density | 2.56 g/cc @Temperature 25.0 Â°C | 0.0925 lb/inÂ³ @Temperature 77.0 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|-----------|----------|
| Modulus of Elasticity | 72.0 GPa | 10400 ksi | |
| Poissons Ratio | 0.21 | 0.21 | |

| Thermal Properties | Metric | English | Comments |
|--------------------------------|--|---|---|
| CTE, linear | 8.90 Âµm/m-Â°C @Temperature 20.0 - 300 Â°C | 4.94 Âµin/in-Â°F @Temperature 68.0 - 572 Â°F | ISO 7991 |
| Thermal Conductivity | 1.10 W/m-K @Temperature 90.0 Â°C | 7.63 BTU-in/hr-ftÂ²- Â°F @Temperature 194 Â°F | |
| Transformation Temperature, Tg | 447 Â°C | 837 Â°F | ISO 7884-8 |
| Softening Point | 646 Â°C | 1190 Â°F | Viscosity 10^{7.6} dPa s; ISO 7884-3 |
| Working Point | 990 Â°C | 1810 Â°F | Viscosity 10⁴ dPa s; ISO 7884-2 |
| Annealing Point | 445 Â°C | 833 Â°F | Viscosity 10¹³ dPa s; ISO 7884-4 |

| Optical Properties | Metric | English | Comments |
|--------------------|-------------------------------|-------------------------------|----------|
| Refractive Index | 1.516 @Wavelength 587.6 nm | 1.516 @Wavelength 587.6 nm | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | 2.50e+6 ohm-cm Metric | 2.50e+6 ohm-cm English | Comments |
|-----------------------|---|---|----------|
| | @Temperature 350 Â°C | @Temperature 662 Â°F | |
| | 1.30e+8 ohm-cm | 1.30e+8 ohm-cm | |
| | @Temperature 250 Â°C | @Temperature 482 Â°F | |
| Dielectric Constant | 6.5 | 6.5 | |
| | @Frequency 1.00e+6 Hz, Temperature 25.0 Â°C | @Frequency 1.00e+6 Hz, Temperature 77.0 Â°F | |
| Dielectric Loss Index | 0.0025 | 0.0025 | |
| | @Frequency 1.00e+6 Hz, Temperature 25.0 Â°C | @Frequency 1.00e+6 Hz, Temperature 77.0 Â°F | |

| Chemical Properties | Metric | English | Comments |
|---------------------|--------|---------|-----------|
| Acid Class, SR | 1 | 1 | DIN 12116 |
| Alkali Class, AR | 2 | 2 | ISO 695 |

| Descriptive Properties | Value | Comments |
|---|-------------|-----------|
| Hydrolytic Resistance | Class HGB 3 | ISO 719 |
| Stress-optical Coefficient K (10-6mm2N-1) | 3 | DIN 52314 |
| tk100(Â°C) | 250 | |

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