

Momentive Performance Materials Type 254 Fused Quartz Tubing

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

A doped quartz material that blocks virtually all UV-B and UV-C radiation. Ideal for lamps requiring maximum visible transmittance with nearly complete UV protection. Including some quartz halogen and metal halide lamps and other UV sources. Softening point 1615Å°C.

Annealing point 1163Å°C. Strain point 1066Å°C. Data provided by GE Quartz. GE Quartz became a part of Momentive Performance Materials in 2006.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-Type-254-Fused-Quartz-Tubing.php

Physical Properties	Metric	English	Comments
Density	2.21 g/cc	0.0798 lb/in ³	
Viscosity	1.30e+14 cP	1.30e+14 cP	
	@Temperature 1100 Å°C	@Temperature 2010 Å°F	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	570	570	kg/mm ²
Hardness, Mohs	5.5 - 6.5	5.5 - 6.5	(Type 214)
Modulus of Elasticity	70.0 GPa	10200 ksi	Young's Modulus
Compressive Strength	55.0 MPa	7980 psi	design compressive strength

Thermal Properties	Metric	English	Comments
CTE, linear	0.400 Åµm/m-Å°C	0.222 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
	0.450 Åµm/m-Å°C	0.250 Åµin/in-Å°F	
	@Temperature 1000 Å°C	@Temperature 1830 Å°F	
	0.600 Åµm/m-Å°C	0.333 Åµin/in-Å°F	
	@Temperature 500 Å°C	@Temperature 932 Å°F	
	0.700 Åµm/m-Å°C	0.389 Åµin/in-Å°F	
	@Temperature 250 Å°C	@Temperature 482 Å°F	
Specific Heat Capacity	0.690 J/g-Å°C	0.165 BTU/lb-Å°F	
	@Temperature 0.000 -	@Temperature 32.0 -	

Thermal Properties	50.0 Å°C Metric	122 Å°F English	Comments
Thermal Conductivity	1.40 W/m-K	9.72 BTU-in/hr-ftÅ²- Å°F	
Softening Point	1615 Å°C	2939 Å°F	
Annealing Point	1163 Å°C	2125 Å°F	
Strain Point	1066 Å°C	1951 Å°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.46	1.46	
Transmission, Visible	92 % @Thickness 1.00 mm	92 % @Thickness 0.0394 in	(includes surface reflection losses)
IR Transmittance	93 % @Wavelength 1000 - 3000 nm, Thickness 1.00 mm	93 % @Wavelength 1000 - 3000 nm, Thickness 0.0394 in	Cutoff is at 5000 nm; (includes surface reflection losses).
UV Transmittance	0.00 % @Wavelength <=230 nm, Thickness 1.00 mm	0.00 % @Wavelength <=230 nm, Thickness 0.0394 in	Wavelength dependent - cutoff below 230 nm; less than 5% above 230 nm; (includes surface reflection losses)

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+10 ohm-cm @Temperature 350 Å°C	5.00e+10 ohm-cm @Temperature 662 Å°F	
Dielectric Constant	6.0 @Frequency 1e+6 Hz	6.0 @Frequency 1e+6 Hz	

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