

## Schott ROBAX® Glass Ceramic

Category : Ceramic , Glass , Glass Ceramic , Optical

### Material Notes:

ROBAX® is a highly transparent glass-ceramic having virtually zero thermal expansion and sufficient mechanical resistance required for all standard applications. It is produced in flat, rolled sheets. As a result of its extremely low thermal expansion, ROBAX® can be subjected to extreme temperature differences. Even when used in high temperature conditions, ROBAX® maintains excellent stability of form.

ROBAX® can be further processed mechanically using all of the normal methods of glass processing. Applications: ROBAX® possesses a high degree of resistance against thermal stresses and chemical surface attacks. Its diverse range of applications include: chemical process sight glass, high temperature vision windows, heat insulators, commercial ovens/broilers, architectural and outdoor lighting, electronics and UV light wave blocking applications. Information provided by SCHOTT North America.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Schott-ROBAX-Glass-Ceramic.php](http://www.lookpolymers.com/polymer_Schott-ROBAX-Glass-Ceramic.php)

Physical Properties	Metric	English	Comments
Density	2.56 g/cc	0.0925 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	92.0 GPa	13300 ksi	
Poissons Ratio	0.25	0.25	
Shear Modulus	36.8 GPa	5340 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	-0.300 - 0.300 Åµm/m- Å°C	-0.167 - 0.167 Åµin/in- Å°F	
	@Temperature 20.0 - 700 Å°C	@Temperature 68.0 - 1290 Å°F	
Specific Heat Capacity	0.800 J/g-Å°C	0.191 BTU/lb-Å°F	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
Thermal Conductivity	1.60 W/m-K	11.1 BTU-in/hr-ftÅ²- Å°F	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
Maximum Service Temperature, Air	680 Å°C	1260 Å°F	100 to 10,000 hr, depends on temperature gradient
	760 Å°C	1400 Å°F	<100 hr, depends on temperature gradient

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 250000 ohm-cm	>= 250000 ohm-cm	
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	>= 6.30e+6 ohm-cm	>= 6.30e+6 ohm-cm	
	@Temperature 250 Â°C	@Temperature 482 Â°F	
Dielectric Constant	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
	@Temperature 175 Â°C	@Temperature 347 Â°F	
Dissipation Factor	7.8	7.8	
	0.019	0.019	

## Contact Songhan Plastic Technology Co.,Ltd.

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