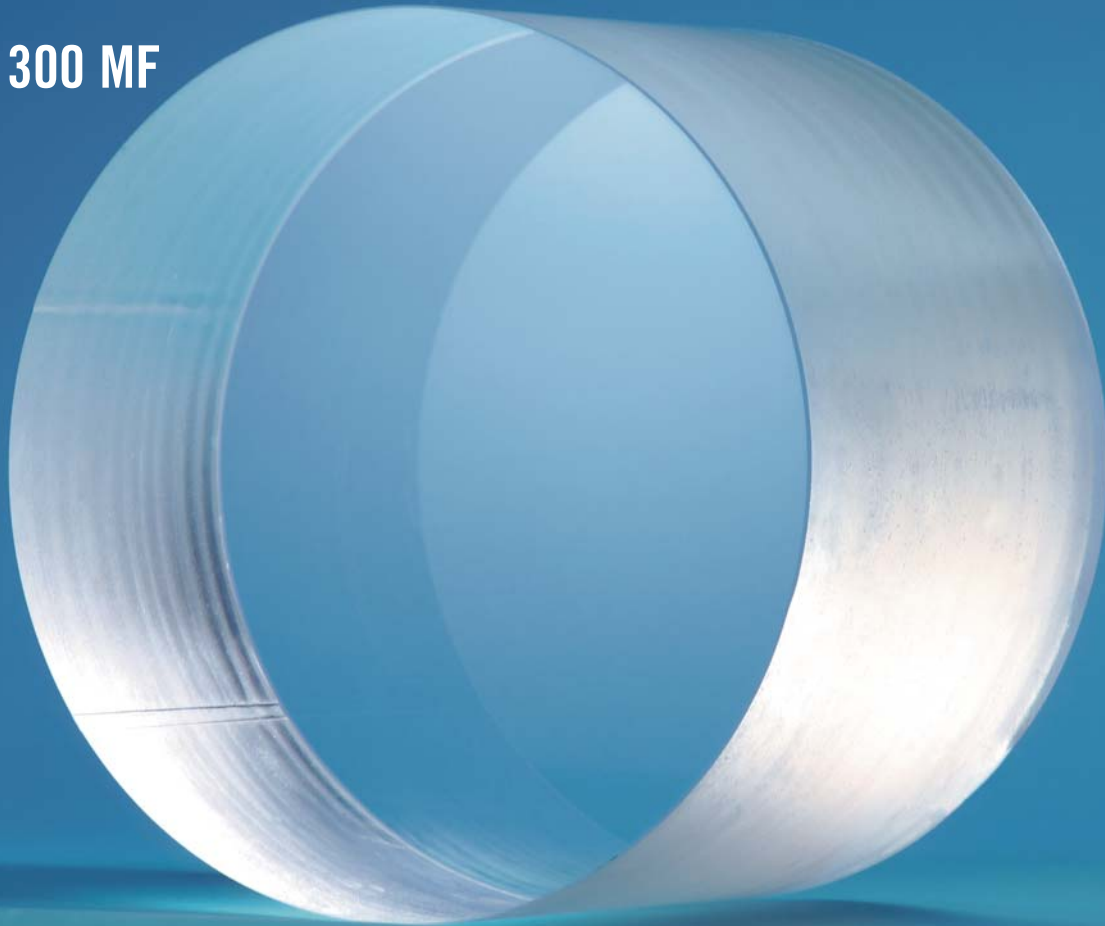


HSQ 300 MF



HSQ 300 MF is a quartz glass material manufactured by electric fusion. It combines excellent physical properties with very good optical characteristics and high transmission for semiconductor applications. The low OH content makes it suitable for high-temperature applications.

Heraeus Quarzglas offers HSQ 300, HSQ 330 and HSQ 700 quality grades.

HSQ MF material is the first choice for viewports, windows and demanding single wafer applications.

Technical features

- Low bubble and inclusion content
- High purity
- High transmission
- Well established production processes
- Outstanding high temperature resistance compared to flame-fused material
- Superior temperature shock resistance
- High-end material for demanding requirements

Typical chemical impurities

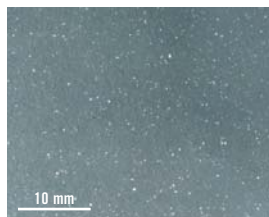
	Al	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ti	Zr	OH Content
HSQ 300	15	0.5	< 0.05	< 0.05	0.1	0.4	0.6	0.05	< 0.05	0.3	1.1	0.7	< 30
HSQ 330	15	0.5	< 0.05	≤ 0.03	0.1	0.2	0.6	0.05	< 0.05	0.2	1.1	0.7	< 30
HSQ 700	15	0.5	< 0.05	< 0.05	0.1	0.1	0.05	0.05	< 0.05	0.05	1.1	0.7	< 30

Bubble specification



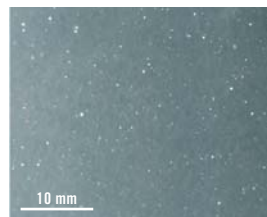
HSQ 300 MF

7 bubbles/100 cm³



Material 1

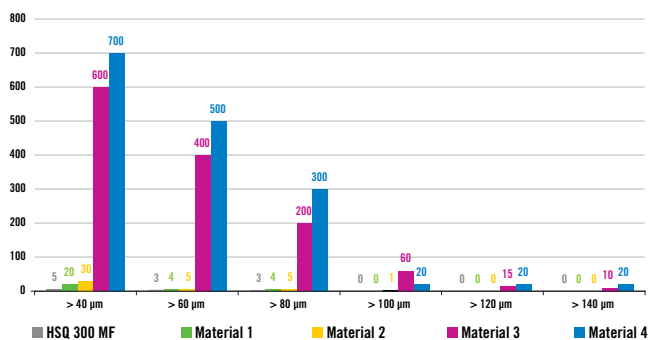
3,200 bubbles/100 cm³



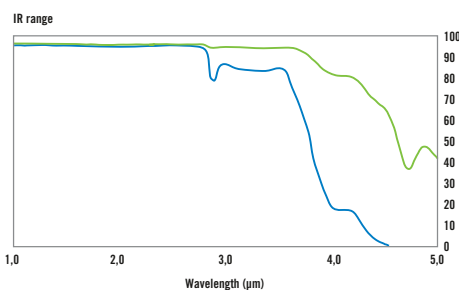
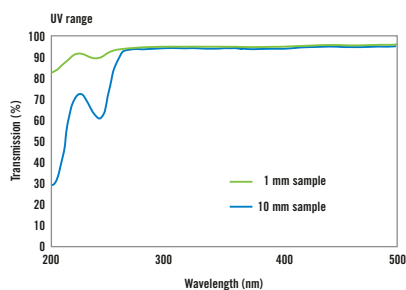
Material 2

12,900 bubbles/100 cm³

Bubble specification



Spectral Transmission



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