Preliminary Data Sheet

Glass No.: G018-223

Lead containing composite solder glass for Silicon, Duran and Borofloat 33.

Physical properties:
(Mean values of specified tolerance ranges)

Thermal expansion coefficient (ISO 7991)

\[ \alpha_{20-250} = 3.14 \times 10^{-6} \text{ K}^{-1} \]
\[ \alpha_{20-300} = 3 \times 10^{-6} \text{ K}^{-1} \]

Transformation temperature (ISO 7884-8) 325 °C

Temperature for viscosity (ISO 7884-6) of \(10^{7.6}\) dPas 359 °C

Density 6 g cm\(^{-3}\)

Form of supply:
The glass will be supplied as powder and paste.

Powder in standard grain size:
\[ d_{50} \leq 10 \mu m \]
\[ d_{99} \leq 63 \mu m \]
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Burn out binder and Pre-Glazing

( In case of paste )

1. heating up: <2 K/min to 350°C
2. holding time at 350°C ; 15 min
3. heating up: <10 K/min to 430°C
4. holding time at 430°C ; 15 min
5. cooling down: <5 K/min to 25°C

Vitreous seals and glazings

( In case of powder or preglazed material )

1. heating up: <10 K/min to 430°C
2. holding time at 430°C ; 15 min
3. cooling down: <5 K/min to 25°C