

Ferro EG 2012 Low-Temperature Sealing

Category : Ceramic , Glass

Material Notes:

VITREOUS, COMPOSITE Typical Powder Form: VEG Ferro's line of low-temperature sealing glasses are comprised of lead-borate (vitreous) and lead-zinc-borate crystallizing glasses formulated to meet specific thermal expansion requirements. Uses include hermetic and compression sealing of IC packages, plasma displays, CRTs, ferrites, fiber optics, as well as other ceramic, metal and glass substrate materials. Information provided by Ferro Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ferro-EG-2012-Low-Temperature-Sealing.php

Physical Properties	Metric	English	Comments
Density	5.44 g/cc	0.197 lb/in ³	
Particle Size	10 - 16 μm	10 - 16 μm	50% of particles
	$\leq 75 \mu\text{m}$	$\leq 75 \mu\text{m}$	

Mechanical Properties	Metric	English	Comments
Heat Seal Strength Initiation Temperature	410 $^{\circ}\text{C}$	770 $^{\circ}\text{F}$	15 min

Thermal Properties	Metric	English	Comments
CTE, linear	7.90 $\mu\text{m}/\text{m}\text{-}^{\circ}\text{C}$	4.39 $\mu\text{in}/\text{in}\text{-}^{\circ}\text{F}$	at Set Pt. (Fired Thermal Expansion)
	7.40 $\mu\text{m}/\text{m}\text{-}^{\circ}\text{C}$	4.11 $\mu\text{in}/\text{in}\text{-}^{\circ}\text{F}$	Fired Thermal Expansion
	@Temperature 260 $^{\circ}\text{C}$	@Temperature 500 $^{\circ}\text{F}$	
Softening Point	350 $^{\circ}\text{C}$	662 $^{\circ}\text{F}$	
Annealing Point	315 $^{\circ}\text{C}$	599 $^{\circ}\text{F}$	

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