

GUANGZHOU POCHELY ELECTRONIC MATERIAL CO.,LTD
INFUSION SYSTEM INSTRUCTION SHEET

E301A /H301B

1. E301A/H301B Moulding System

This system has low viscosity , low shrinkage, good wettability ,long handling time. The fully cure system exhibits excellent mechanical and high TG point .Applications that require high heat resistance boats ,shipping buildings ,automotives, tools, and moulding

2、 Physical Properties .

	Epoxy resin E301A	Hardener H301B
Density (g/cm3)	1.10-1.20	0.90-1.00
Viscosity (cps,@25℃)	900-1350	30-130
Epoxide Equivalent(g/eq)	170-190	
Epoxy Value(eq,100g)	0.57-0.61	
Amine Value (mgKOH/g)		580-680
Appearance	Transparent	Blue

3.Mixtion properties

	E301A/H301B
Mixing Ratio (by weight)	A:B = 100:30 \pm 2
Mixing Ratio (by volume)	A:B =100:36 \pm 2
Mixing Viscosity(cps,@25℃)	200-300
Exothermic Peak(@25℃)	120-220℃
Time To Exothermic Peak(min @25℃ 130g)	180-240

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4. Physical testing after cured

Testing project	Unit	E301A/H301B
Flexural Strength	Mpa	125-145
Flexural modulus	Mpa	2800-3300
Tensile strength	Mpa	70-85
Tensile modulus	Mpa	2800-3200
Elongation at break rate	%	4.0-9.0
Impact toughness	Kj/ M ²	>35
Compressive strength	Mpa	95-110
Liner expansion and contraction	%	1.17
Tg(25℃*16 hours + 80℃x 8 hours	℃	100-105
Tg(50℃*8 hours + 100℃x 5 hours	℃	115-125
Curing condition	25℃ x 16 hours + 70℃ x 8 hours	

5.Storage

Shelf life : 12 month , storage in sealed container .

Please note that if the temperature follows at -15℃,it may appear crystallization during storage ,it is a kind of normal physical appearance , it won't effect the final using result .If this happens ,please bake it at the condition of 50-70℃ after it getting clear .

6. Remarks

Such products performance was related with operational condition and actual operation ,the seller can not guarantee practicability of some specific purpose. Also the seller can not control the operational way of epoxy in customer side ,in any

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cases ,the seller will not afford the losses causes in customer side .When applying the product, the customer should have related testing experimentation prior to try big quantity.

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