

POLYTHIOL QE-340M

(Quick Curing Agent for Epoxy Resin)

Description

POLYTHIOL QE-340M is clear color liquid polymer which has thiol(-SH) terminals.

Typical Properties

POLYTHIOL QE-340M offers excellent properties at curing of epoxy resin in combination with amines or polyamines.

Polymer Properties

	Specification	Typical value
Appearance	—	clear liquid
Color (APHA)	≤ 300	15
Viscosity (Pa·s) @25°C	10.0~18.0	13
Mercaptan Content(wt%)	10.0~14.0	13

Curing Properties

Formulation : jER-828/QE-340M/EHC-30 = 100/80/10 (Weight)

EHC-30 : Tris-2,4,6-dimethylaminomethyl phenol

[Typical Data]

		QE-340M
Gel Time (min)	5°C	7.5
	23°C,50%RH	3.5
Hardness (Shore D) ¹ 24hr	5°C	79
	23°C,50%RH	84
Lap Shear Strength (MPa) ² 24hr	5°C	15
	23°C,50%RH	15

1 Sample Size :φ31mm×8mm

2 Adherend :Steel(sandblast) 25mm×100mm×1.6mm

Note: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and of use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by following these suggestions. Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

◆ Curing Properties of QE-340M

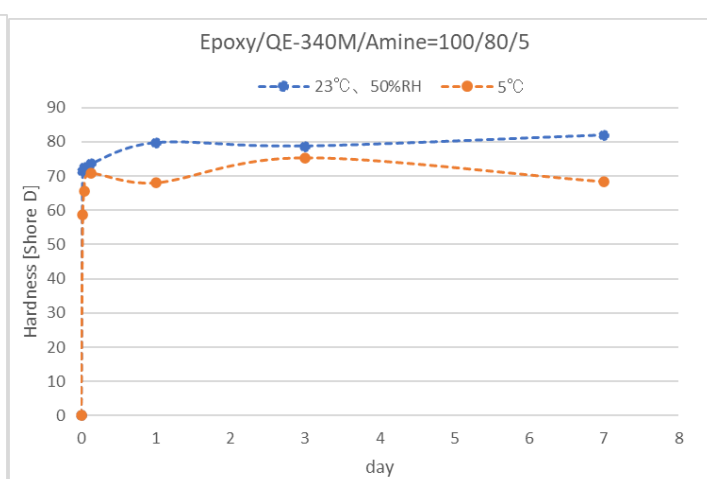
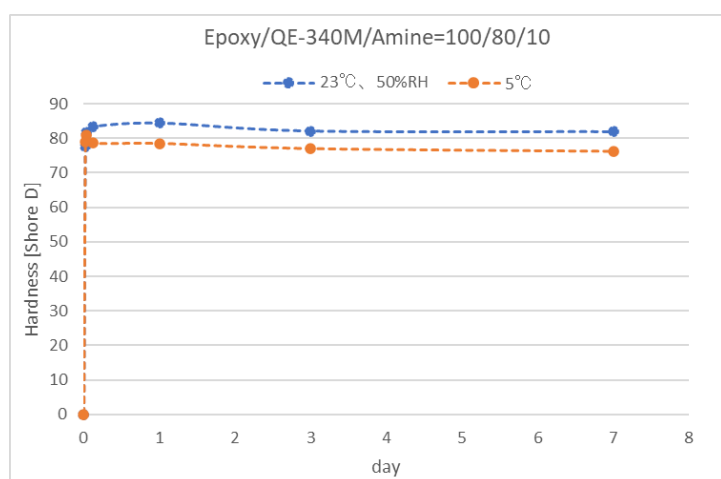
QE-340M cures quickly even under low temperature and shows high Hardness.

Hardness at 5°C and 23°C, 50%RH

jER-828			100	100
QE-340M			80	80
EHC-30 ¹			5	10
Hardness [Shore D] ²	5°C	0.5hr	59	79
		1hr	66	81
		3hr	71	79
		24hr	68	79
		3d	75	77
		7d	68	76
	23°C 50%RH	0.5hr	71	78
		1hr	72	82
		3hr	74	83
		24hr	80	84
		3d	79	82
		7d	82	82

1 Tris-2,4,6-dimethylaminomethyl phenol

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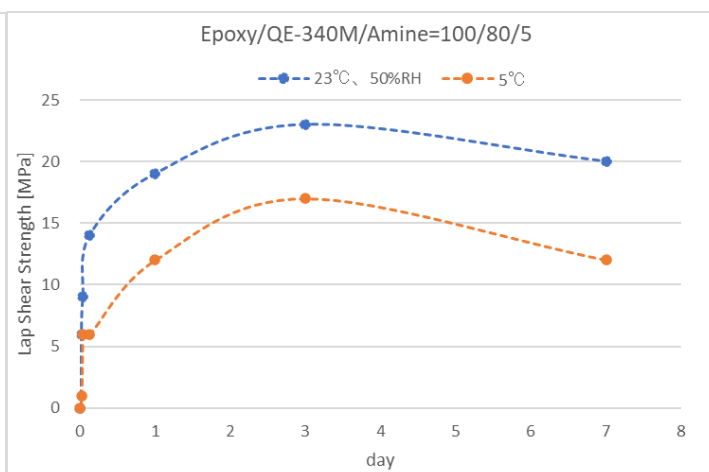
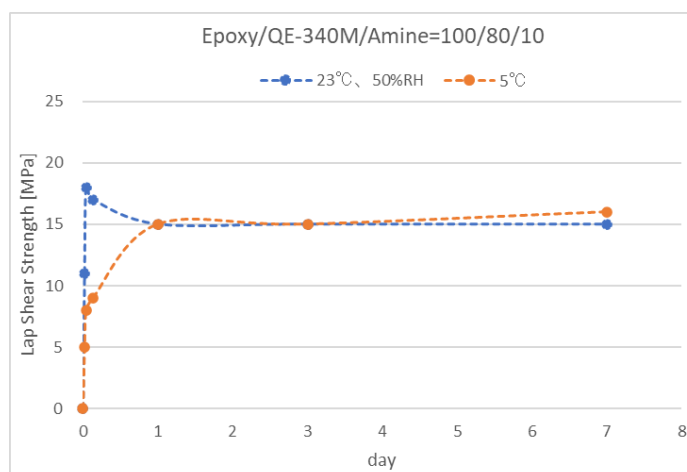
QE-340M cures quickly even under low temperature and shows high Lap Shear Strength.

Lap Shear Strength at 5°C and 23°C, 50%RH

jER-828			100	100
QE-340M			80	80
EHC-30 ¹			5	10
Lap Shear Strength [MPa] ²	5°C	0.5hr	1	5
		1hr	6	8
		3hr	6	9
		24hr	12	15
		3d	17	15
		7d	12	16
	23°C 50%RH	0.5hr	6	11
		1hr	9	18
		3hr	14	17
		24hr	19	15
		3d	23	15
		7d	20	15

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