



NAN YA EPOXY RESIN

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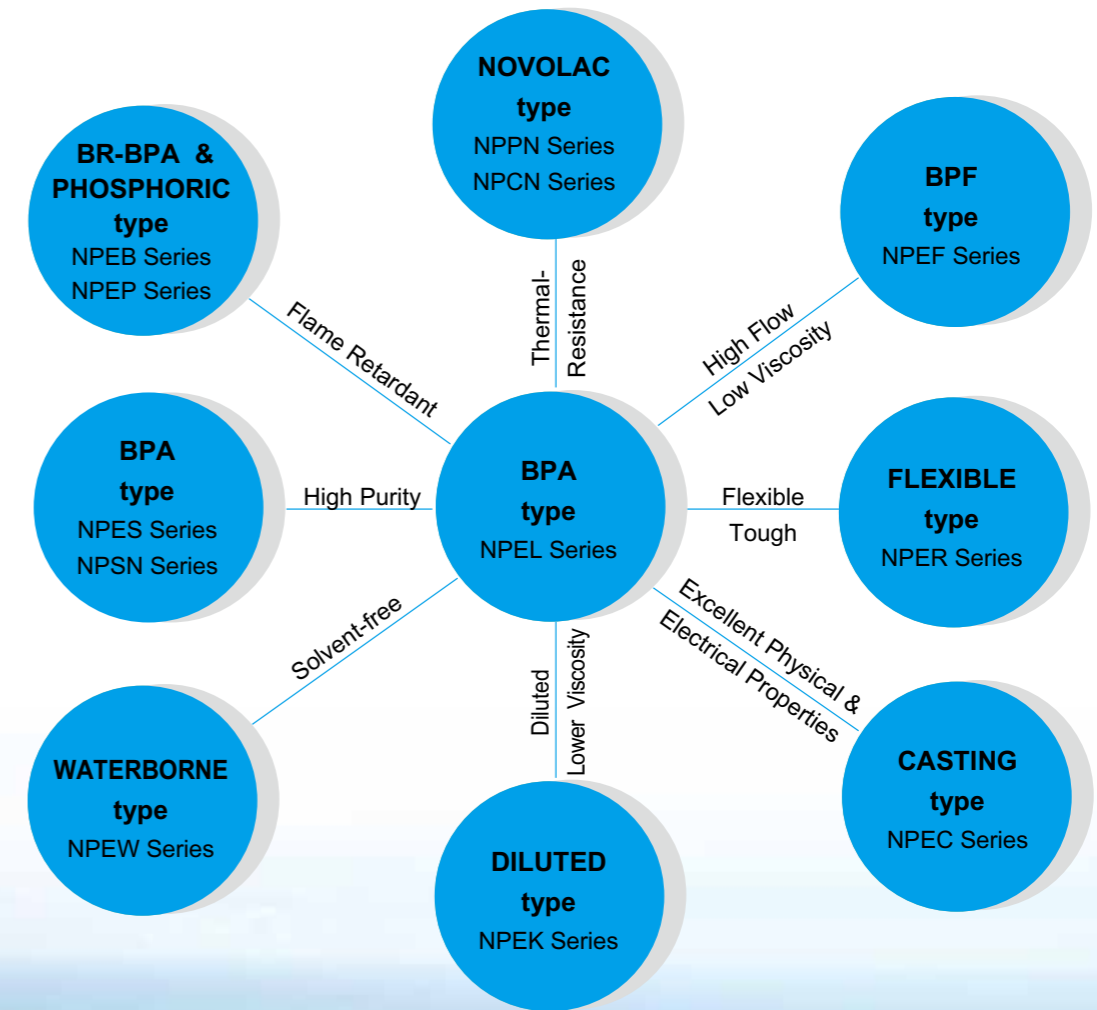
Nan Ya Epoxy Resin Product Series

Nan Ya Epoxy started to manufacture high quality epoxy resins since 1988. Our annual capacity has expanded from 18,000 MT in 1988 to more than 461,000 MT in 2015, including two production bases in Taiwan (Shulin and Mailao) and two in China (Kunshan), to satisfy the growing market demand.

To better service our customers with different applications, Nan Ya Epoxy keeps focus on R&D and technology improvements. By using high-end instruments, our R&D departments in all four- production bases are able to ensure stable product quality and always work with our customers closely for any technical issues they may encounter.

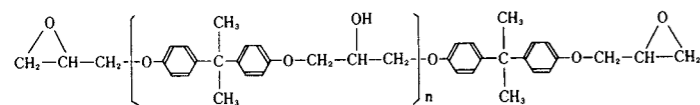
Nan Ya Epoxy also takes advantage of internal sourcing channels within Formosa Plastic Group to ensure quality, sufficient and on-time BPA and ECH supplies.

Nan Ya Epoxy passed ISO-9001 in May 1994, ISO-14001 in 1997 and Sony Green partner Certificate in 2005 and will keep up with other environmental requirements, like REACH in European market, to act as a social responsible global Epoxy Resin manufacturer.



1. Low Molecular Weight Epoxy Resin

1-1. Bisphenol A Type

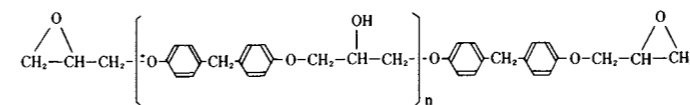


GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	COLOR (G)	COMMENTS
NPEL-127	176~184	8000~11000	1.0 MAX.	Low viscosity
NPEL-127E	176~184	8000~11000	1.0 MAX.	Low hydrolyzable chlorine
NPEL-127H	182~188	10000~12000	1.0 MAX.	Low viscosity
NPEL-128	184~190	12000~15000	1.0 MAX.	Standard
NPEL-128E	184~190	12000~15000	1.0 MAX.	Low hydrolyzable chlorine
NPEL-128G	184~190	12000~15000	1.0 MAX.	Total chlorine < 1550ppm
NPEL-128R	184~194	12000~16000	1.0 MAX.	Non-crystallizable
NPEL-128S	205~225	19000~24000	1.0 MAX.	High viscosity
NPEL-134	230~270	O~U*	1.0 MAX.	Semi-solid
NPEL-136	300~330	X~Z2*	1.0 MAX.	Semi-solid
NPEL-231	184~194	—	1.0 MAX.	Precatalyzed

* Gardner-Holdt method (70%NV of butyl carbital solution)

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPSN-134X80	230~270	800~1400	80± 1	1.0 MAX.	Solution of NPEL-134 in Xylene
NPSN-134X85	230~270	2000~5000	85± 1	1.0 MAX.	Solution of NPEL-134 in Xylene
NPSN-134X90	230~270	10000~30000	90± 1	1.0 MAX.	Solution of NPEL-134 in Xylene
NPSN-136X80	300~330	3000~7000	80± 1	1.0 MAX.	Solution of NPEL-136 in Xylene

1-2. Bisphenol F Type



GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	COLOR (G)	COMMENTS
NPEF-164X	185~205	700~1100	1.0 max.	BPA/BPF/Diluent blended
NPEF-170	160~180	2000~5000	1.0 max.	Standard
NPEF-180	170~190	5000~7000	1.0 max.	BPA/BPF blended
NPEF-185	170~190	6000~8000	1.0 max.	BPA/BPF blended
NPEF-187	175~185	7500~9500	1.0 max.	BPA/BPF blended
NPEF-198	180~186	10000~14000	1.0 max.	BPA/BPF blended

1-3. Reactive Diluents

GRADE	EEW (g/eq)	Hy-C1 (ppm)	COLOR (G)	VISCOSITY (cps/25°C)	COMMENTS
NPER-032	305~335	2000 MAX.	1.0 MAX.	35~80	Polypropylene glycol diglycidyl ether
NPEK-041	140~155	2000 MAX.	1.0 MAX.	5~10	Butyl glycidyl ether
NPEK-048	270~290	2000 MAX.	1.0 MAX.	5~20	C12~C14 Aliphatic glycidyl ether

1-4. Diluted Type

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	COLOR (G)	COMMENTS
NPEK-110	176~186	1400~2400	1.0 MAX.	NPEL-128 diluted with Butyl glycidyl ether
NPEK-114	190~210	600~1200	1.0 MAX.	NPEL-128 diluted with C12~C14 Aliphatic Glycidyl Ether
NPEK-114L	195~205	550~750	1.0 MAX.	NPEL-128 diluted with C12~C14 Aliphatic Glycidyl Ether
NPEK-115	175~195	600~1200	1.0 MAX.	NPEL-128 diluted with Butyl Glycidyl Ether
NPEK-139	180~220	1500~2100	3.0 MAX.	NPEL-128 diluted with C10 Glycidyl Ester

2. Medium Molecular Weight Epoxy Resin

2-1. High Purity Epoxy Resin

GRADE	EEW (g/eq)	SOLUTION VISCOSITY (25°C)*	MELT VISCOSITY (cps/150°C)**	SOFTENING POINT (°C)	COLOR (G)*	COMMENTS
NPES-901	450~500	D~F	—	64~74	1.0 MAX.	For vinyl ester, CFRP, paints
NPES-901H	580~610	I~L	—	80~85	1.0 MAX.	For vinyl ester, CFRP, paints
NPES-902	600~650	I~M	—	82~92	1.0 MAX.	For coatings
NPES-902H	680~710	K~P	2000~4500	90~95	1.0 MAX.	For coatings
NPES-903K	670~700	K~P	2000~4000	88~95	1.0 MAX.	For powder coatings
NPES-903	700~750	N~R	3000~5000	90~98	1.0 MAX.	For powder coatings
NPES-903H	740~780	P~S	3500~6000	92~100	1.0 MAX.	For Powder coatings
NPES-904	780~850	S~W	4500~8000	96~107	1.0 MAX.	For Powder coatings, epoxy ester
NPES-904H	840~900	V~X	6000~9000	100~112	1.0 MAX.	For Powder coatings, epoxy ester

* N.V 40%. butyl carbitol solution
** Viscosity measured by cone & plate viscometer at 150°C

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPSN-901K80	450~500	4000~13000	80 ± 1	1.0 MAX.	Solution of NPES-901 in MEK
NPSN-901S75	450~500	13000~25000	75 ± 1	1.0 MAX.	Solution of NPES-901 in BCS
NPSN-901X65	450~500	1000~1800	65 ± 1	1.0 MAX.	Solution of NPES-901 in Xylene
NPSN-901X75	450~500	8000~15000	75 ± 1	1.0 MAX.	Solution of NPES-901 in Xylene
NPSN-902X70	600~650	8000~18000	70 ± 1	1.0 MAX.	Solution of NPES-902 in Xylene
NPSN-902X75	600~650	20000~55000	75 ± 1	1.0 MAX.	Solution of NPES-902 in Xylene

2-2. High Flow Epoxy Resin

GRADE	EEW (g/eq)	SOLUTION VISCOSITY (25°C)*	MELT VISCOSITY (cps/150°C)**	SOFTENING POINT (°C)	COMMENTS
NPES-601	510~570	G~I	—	74~82	For paints
NPES-602	610~660	—	600~1800	75~86	For powder coatings
NPES-602L	640~680	—	1200~1600	79~85	For powder coatings
NPES-602H	660~720	—	1700~2500	85~95	For powder coatings
NPES-603	720~770	—	1500~3500	85~95	For powder coatings
NPES-604	800~850	—	2500~6000	90~100	For powder coatings
NPES-605	900~950	—	4000~8000	95~108	For powder coatings

* N.V 40%. butyl carbitol solution
** Viscosity measured by cone & plate viscometer at 150°C

2-3. Master Batch Epoxy Resin

GRADE	EEW (g/eq)	MELT VISCOSITY (cps/150°C)*	SOFTENING POINT (°C)	COMMENTS
NPES-902P	700~750	1800~2800	85~95	For powder coating, with 2.5% flow agent
NPES-924	720~770	2000~3500	85~97	For powder coating, with 10% flow agent

* Viscosity measured by cone & plate viscometer at 150°C

2-4. Special Modified Epoxy Resin

GRADE	EEW (g/eq)	MELT VISCOSITY (150°C)**	SOFTENING POINT (°C)	COLOR (G)*	COMMENTS
NPES-660U	500~560	4000~8000	90~98	2.0 MAX.	Multifunction resin modified
NPES-662H	750~850	—	110~120	2.0 MAX.	Multifunction resin modified

*N.V 40%. butyl carbitol solution
** Viscosity measured by cone & plate viscometer at 150°C

3. High Molecular Weight Epoxy Resin

3-1. High Purity Epoxy Resin

GRADE	EEW (g/eq)	SOLUTION VISCOSITY (25°C)*	SOFTENING POINT (°C)	COLOR (G)*	COMMENTS
NPES-907	1500~1800	X~Z2	120~130	1.0 MAX.	For can coatings
NPES-909	1800~2400	Z2~Z5	130~150	1.0 MAX.	For can coatings, coil coatings

* N.V 40%. butyl carbitol solution

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPSN-907BM50	1500~1800	2000~8000	50 ± 1	1.0 MAX.	Solution of NPES-907 in BCS/XYL

3-2. High Flow Epoxy Resin

GRADE	EEW (g/eq)	SOLUTION VISCOSITY (25°C)*	SOFTENING POINT (°C)	COMMENTS
NPES-607	1650~1900	Y~Z1	120~135	For can coatings

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	FORD #4 CUP (sec)**	COMMENTS
NPES-619A	2400~3000	130~150	28~36**	For can coating, coil coating
NPES-619C	2400~3000	130~150	33~43**	For can coating, coil coating
NPES-619D	2400~3000	135~150	39~46**	For can coating, coil coating
NPES-619E	2600~3300	135~150	45~52*	For can coating, coil coating
NPES-629	2400~3000	130~150	28~46**	For can coating, coil coating
NPES-639	2600~3000	130~150	47~60**	For can coating, coil coating, low BPA content (BPA<5ppm)

*40%N.V.,butyl carbitol solution.

** Ford #4 cup: 25%N.V (PMA solution)

*** Ford #4 cup: 30%N.V (PMA solution)

3-2. High Flow Epoxy Resin

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPSN-608BM50	2000~2500	3000~6500	50 ± 1	1.0 MAX.	Solution of NPES-608 in BSC/XYL
NPSN-609BM51	2400~3000	4000~12000	51 ± 1	1.0 MAX.	Solution of NPES-609 in BSC/XYL
NPSN-610BM50	2400~3000	3000~7000 (30°C)	50 ± 1	1.0 MAX.	Solution of NPES-610 in BSC/XYL

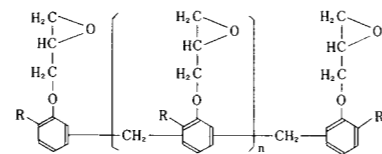
4. Taffy Process Bisphenol A Type Epoxy Resin

GRADE	EEW (g/eq)	SOLUTION VISCOSITY (25°C)*	SOFTENING POINT (°C)	COLOR (G)*	COMMENTS
NPES-301	450~500	D~G	62~72	1.0 MAX	For paints
NPES-301H	530~570	—	66~78	1.0 MAX	For paints
NPES-302	600~700	G~K	75~85	1.0 MAX	For powder coatings
NPES-303L	720~780	M~R	85~95	1.0 MAX	For powder coatings
NPES-303	800~900	O~S	85~105	1.0 MAX	For powder coatings
NPES-304	900~1000	Q~U	95~115	1.0 MAX	For powder coatings

*40% N.V.,butyl carbitol solution.

GRSDE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPSN-301X65	450~500	800~1700	65 ± 1	1.0 MAX	Solution of NPES-301 in Xylene
NPSN-301X75	450~500	6000~14000	75 ± 1	1.0 MAX	Solution of NPES-301 in Xylene

5. Novolac Type Epoxy Resin



5-1 Phenol Novolac Type

GRADE	EEW (g/eq)	SOLUTION VISCOSITY (25°C)	COLOR (G)**	COMMENTS
NPPN-630L	168~175	9500~12500	2.0 MAX.	Low viscosity
NPPN-630	165~178	18000~28000	2.0 MAX.	Low viscosity
NPPN-631	168~178	1100~1700*	2.0 MAX.	Low viscosity
NPPN-638	170~190	H~K**	3.0 MAX.	Standard, good heat resistance
NPPN-638S	170~190	H~J**	3.0 MAX.	Standard, narrow viscosity range

*Brookfield viscometer method cps/52°C

**60% N.V.,butyl carbitol solution

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	MELT VISCOSITY (cps/150°C)*	COMMENTS
NPPN-640	180~200	70~80	550~900	High Mw, excellent heat resistance

* Viscosity measured by cone & plate viscometer at 150°C

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPPN-638K80	172~185	—	80 ± 1	3.0 MAX	Solution of NPPN-638 in MEK
NPPN-638X80	172~185	1200~2000	80 ± 1	3.0 MAX	Solution of NPPN-638 in Xylene

5-2. Cresol Novolac Type

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	MELT VISCOSITY (cps/150°C)*	COLOR (G)*	COMMENTS
NPCN-701	195~210	62~66	250~330	3.0 MAX	For EMC, Ink
NPCN-702	195~210	68~73	400~580	3.0 MAX	For EMC, Ink
NPCN-702P	195~210	69~74	530~580	3.0 MAX	For EMC, Ink
NPCN-703	195~220	78~85	750~2000	3.0 MAX	For EMC, Ink, CFRP
NPCN-704L	200~220	82~90	1000~2500	3.0 MAX	For EMC, Ink, CFRP
NPCN-704	200~220	88~95	1500~4500	3.0 MAX	For EMC, Ink, CFRP
NPCN-704H	200~220	95~100	3000~4500	3.0 MAX	For EMC, Ink, CFRP

*40% N.V.,butyl carbitol solution.

** Viscosity measured by cone & plate viscometer at 150°C

5-2. Cresol Novolac Type

GRADE	EEW (g/eq)	N.V (%)	COLOR (G)	COMMENTS
NPCN-704K80	200~220	80 ± 1	5.0 max.	Solution of NPCN-704 in MEK

5-3. Tetra-Functional Novolac Type

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	COMMENTS
NPPN- 431	200~240	82~92	Glyoxal-phenol novolac epoxy resin, excellent heat resistance and UV block, for CCL, CFRP

GRSDE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPPN431A70	200~240	100~300	70 ± 1	9~13	Solution of NPPN-431 in Acetone

5-4. Bisphenol A Novolac Type

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	COLOR (G)	COMMENTS
NPPN-438	190~210	60~68	2.0 MAX.	For Ink, CFRP, CCL

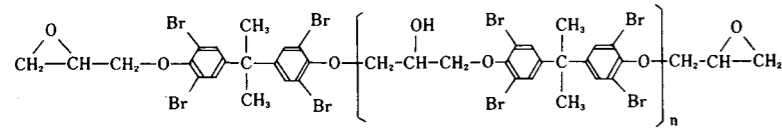
GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COLOR (G)	COMMENTS
NPPN-438A70	185~210	30~130	70 ± 1	5.0 max.	Solution of NPPN-438 in Acetone
NPPN-438A80	185~210	1000~4000	80 ± 1	5.0 max.	Solution of NPPN-438 in Acetone
NPPN-438K80	185~210	—	80 ± 1	5.0 max.	Solution of NPPN-438 in MEK

5-5. Tri-Functional Novolac Type

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	COLOR (G)	COMMENTS
NPPN- 442	155~175	45~55	10 MAX.	Phenol Para-hydroxy Benzaldehyde Epoxy, Excellent Heat Resistance

6. Brominated Type Epoxy Resin

6-1. High Brominated Type



GRADE	EEW (g/eq)	SOFTENING POINT (°C)	BR CONTENT (%)	COMMENTS
NPEB-340	330~380	46~64	46~50	Low Softening point
NPEB-400	380~420	64~74	46~50	Standard
NPEB-402	440~470	78~85	47~51	High Softening point

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)*	N.V (%)	BR CONTENT (%)	COMMENTS
NPEB-400T60	380~420	5~20	60 ± 1	46~50	Solution of NPEB-400 in Toluene
NPEB-400T65	380~420	10~150	65 ± 1	46~50	Solution of NPEB-400 in Toluene

6-2. Low Brominated Solvent Type (Dicy cured system)

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	BR CONTENT (%)	COMMENTS
NPEB-450A80	410~440	800~1800	80 ± 1	18~21	Standard brominated epoxy resin in acetone, suitable for CCL
NPEB-454A80	425~455	1000~2600	80 ± 1	18~21	Modified brominated epoxy resin in acetone, suitable for UV-block property
NPEB-454HA80	425~455	1000~2600	80 ± 1	18~21	Modified brominated epoxy resin in acetone, suitable for UV-block property
NPEB485A80	385~405	800~2000	80 ± 1	18~21	Modified brominated epoxy resin in acetone, suitable for Tg150°C, UV-block CCL application.
NPEB487A80	355~375	1000~2500	80 ± 1	14~17	Modified brominated epoxy resin in acetone, suitable for Tg170°C, UV-block CCL application.

6-3. Low Brominated Solvent Type (Phenol Novolac cured system)

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)*	N.V (%)	BR CONTENT (%)	COMMENTS
NPEB-475K70	295~335	100~300	70 ± 1	14~16	Design for Novolac curing system. It provide higher Tg (150°C), and good thermal ,moisture resistance.
NPEB-477A70	280~350	50~250	70 ± 1	24~26	Design for Novolac curing system. It provide higher Tg (170°C), and good process window

7. Flexible Type Epoxy Resin

7-1. Polyurethane Modify Type

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	COLOR (G)	COMMENTS
NPER-133M	195~240	40000~50000	1.0 MAX.	Standard
NPER-133L	195~240	10000~16000	1.0 MAX.	Diluted with C12~C14 Aliphatic Glycidyl Ether

7-2. Dimer Acid Modify Type

GRADE	EEW (g/eq)	COLOR (G)	COMMENTS
NPER-172	600~700	6.0 MAX.	Dimer acid modified BPA epoxy, semi solid
NPER- 173R	320~340	6.0 MAX.	Dimer acid modified BPA epoxy, semi solid

GRADE	EEW (g/eq)	N.V (%)	VISCOSITY (cps/25°C)	COLOR (G)	COMMENTS
NPER-174X90	250~265	90 ± 1	2000~4000	5.0 MAX.	Solution of NPER-174 in Xylene

8. Casting Type Epoxy Resin

8-1. Casting Resin

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	COLOR (%)	COMMENTS
NPEC-195	370~420	50~60°C	1.0 MAX.	Electronic castings NPEC-195:NPEC-195H=100:30

8-2. Compounding Formula

GRADE	VISCOSITY (CPS/25°C)	COLOR	COMMENTS
NPEC-270	11000~15000	1.0 max	MTR(molding resin transformers system)
NPEC-273	4000~5500	1.0 max	APG(Automatic pressure gelation process)
NPEC-882	1400~1800	BROWN	Filament winding process NPEC-882 : NPED-442=100: 87
NPEC-217	250~400	Yellow liquid	Busway joint casting NPEC-217 A: NPEC-217B =20:1

9. Waterborne type Epoxy Resin

GRADE	EEW (g/eq)	N.V (%)	VOLATILE	VISCOSITY (cps/25°C)	COMMENTS
NPEW-254W60	190~250	60±2	WATER	3000~13000	Emulsion type, Diluted with C12~C14 Aliphatic Glycidyl Ether, 60% Solid dispersed in water
NPEW-258W60	190~240	60±2	WATER	6000~20000	Emulsion type, 60% Solid dispersed in water
NPEW-261W55	480~560	55±2	WATER*	800~5000	Emulsion type, 55% Solid dispersed in water
NPEW-291W53	520~600	53±2	WATER*	8000~22000	Emulsion type, 53% Solid dispersed in water
NPEW-276W25	—	25±1	WATER*	11"~15"***	Emulsion type, 25% Solid dispersed in water, Used melamine resin as hardener

*Water & hydrophilic alcohol

** #4 Ford cup at 25°C

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	COMMENTS
NPEW-258	190~240	12000~22000	Modified BPA type epoxy resin, which can be emulsified by water

10. Halogen Free Flame retardant Resin

GRADE	EEW (g/eq)	VISCOSITY (cps/25°C)	N.V (%)	COMMENTS
NPEP-200LA70	330~370	400~1400	70 ± 1	Phosphorous cresol novolac epoxy, Solution of NPEP-200L in Acetone, P cont. = 2.5%
NPEP-204A70	430~470	2000~4000	70 ± 1	Phosphorous cresol novolac epoxy, Solution of NPEP-204 in Acetone, P cont. = 4%
NPEP-210A70	310~330	100~450	70 ± 1	Phosphorous cresol novolac epoxy, Solution of NPEP-210, P cont. = 3.3%

GRADE	EEW (g/eq)	SOFTENING POINT (°C)	COMMENTS
NPEP-210	310~330	68~78	Phosphorous Phenol Novolac Epoxy, P cont. = 3.3%

GRADE	Hy-Cl (g/eq)	N.V (%)	COMMENTS
NPEP-208JM60	0~250	60±1	P cont. = 8.2%, N cont.=4%, 60% solid in PM/TOL

11. Novolac Resin

GRADE	COLOR (G)	SOFTENING POINT (°C)	COMMENTS
TPN1	9~11	120~150	Glyoxal-Phenol Type Novolac

GRADE	OH EQUIVALENT (g/eq)	N.V (%)	COMMENTS
NPEH-710A65	95~105	65 ± 1	Phenol Novolac, 65% solid in Acetone
NPEH-710SA65	95~105	65 ± 1	Phenol Novolac, 65% solid in Acetone
NPEH-720HA65	115~125	65 ± 1	Bisphenol A Novolac, 65% solid in Acetone

12. Low Dk/Df Epoxy Resin

GRADE	EEW (g/eq)	Hy-Cl (ppm)	N. V. (%)	COMMENTS
NPPN-260A80	190~210	500MAX.	80 ± 1	Copolymer novolac epoxy, 80% solid in Acetone

GRADE	EEW (g/eq)	Hy-Cl (ppm)	SOFTENING POINT (°C)	COMMENTS
NPPN-272H	272~284	300MAX.	78~88	Dicyclopentadiene-phenol epoxy resin

13. Phenoxy Resin

GRADE	VISCOSITY (cps/25°C)	MW (by GPC)	N.V (%)	COLOR (G)	COMMENTS
NPPH-500P26	2000~6000	50000~80000	26 ± 1	3.0 MAX	High molecular weight, good adhesive/flexible



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