

Module 39 – Brominated epoxy resins portfolio

Objectives

- Understand the brominated product range
- Understand the portfolio nomenclature
- Understand the differences in the product range



Portfolio

Action	Product	Product Description	EEW (g/mol)	Viscosity	Bromine Content (%)	Color	Softening Point (°C)
	D.E.R.™ 529-EX32	Brominated epoxy resin in methyl ethyl ketone.	430 to 470 (Based on solids)	1800 to 2000 (25°C) (mPa·s)	18.0 to 21.0	—	—
	D.E.R.™ 550	Solid brominated epoxy resin.	440 to 470	140 to 210 (110°C) (cP)	47.0 to 51.0	—	70 to 85
	D.E.R.™ 552-ADD	Brominated epoxy resin in acetone.	550 to 570 (Based on solids)	1000 to 2400 (25°C) (cP)	18.0 to 18.0	15 (Blue Densified)	—
	D.E.R.™ 553	Brominated epoxy resin in DOWACOL™ PA glycol ether.	550 to 570 (Based on solids)	400 to 1100 (25°C) (cP)	18.0 to 18.0	—	—

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Main differences:

- EEW
- Physical appearance
- Bromine content
- Chemical modification

Main application:

- Electrical laminate



Product value proposition

- D.E.R.™ 539-EK80

Standard brominated resin
Bromine content ~ 20%
Enhanced UV blocking and resistance

- D.E.R. 560

Solid resin
High bromine content (~50%)
Can be blended with non-brominated resins

- D.E.R. 592-A80

Bromine content ~ 20%
Chemically modified
Improved chemical resistance
Improved dimensional stability

- D.E.R. 593

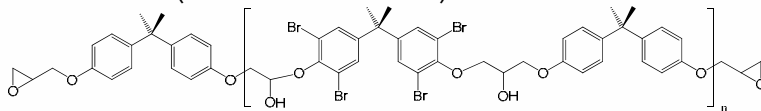
Similar to DER 592
Quicker cure
Higher Tg

Back-up slides

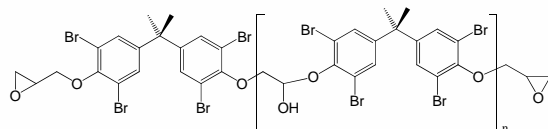


Brominated epoxy resins

- D.E.R.TM 539 (Bromine content ~ 20 %)



- D.E.R. 560 (Bromine content ~ 50%)



- D.E.R. 592 and 593 (Bromine content ~20%)

