

High Tg Epoxy Formulations
Based on Modified and Unmodified EPALLOY™ Epoxy Novolacs

<u>FORMULATION</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Epalloy™ 8330	100	100	-	-
Erisys™ RN-3650	-	-	100	100
AC Methyl Anhydride ¹	87	43	50	50
Pyromelitic Dianhydride ²	-	31	36	17
Omicure™ 24 EMI	0.1	-	-	-
 <u>RESULTS</u>				
Tg ³ , °C	216	281	271	259
Viscosity at 25°C, cps	11,500	-	5,200	3,500
At 30°C, cps	-	-	-	2,000
At 35°C, cps	3,250	-	1,800	-
At 45°C, cps	1,200	7,500	-	-
At 55°C, cps	-	2,500	-	-
 Viscosity increase at indicated temperature after storage time at that temperature				
	<u>45°C</u>	<u>55°C</u>	<u>35°C</u>	<u>30°C</u>
1 hour, cps	1,250	3,000	1,900	2,100
2 hours, cps	-	3,700	2,050	2,250
3 hours, cps	1,400	4,800	2,200	2,400
4 hours, cps	-	-	2,350	2,600
5 hours, cps	1,500	-	2,550	-
8 hours, cps	1,750	-	-	-
10 hours, cps	1,820	-	-	-
20 hours, cps	-	-	7,980	-

¹Lonza²Allco³Cure 3 hours @ 121°C + 3 hours @ 260°C