

# Temperature Indices for Encapsulating Systems

02-Oct-98	Definition	
	Mass loss	10% loss of organic material
	Maechanical properties	50% decrease from initial value

System	Property	Temperature index	
		20000 hr	5000 hr
CW 1237BD / HY 842	Tensile elong. %	81°C	96°C
	Mass loss %	82°C	103°C
CW 1302 / HY 1300	Flex strength N/mm <sup>2</sup>	180°C	189°C
	Mass loss %	124°C	137°C
Araldite D/HY 956	Flex strength N/mm <sup>2</sup>	72°C	86°C
	Mass loss %	111°C	121°C
Araldite D / HY 2966	Flex strength N/mm <sup>2</sup>	76°C	95°C
	Mass loss %	94°C	107°C
<b>CW 2243L / HY 2966</b>	Tensile elong %	74°C	86°C
	Tensile strength N/mm <sup>2</sup>	128°C	163°C
	Mass loss %	81°C	101°C
<b>CW 2245 / HY 2966</b>	Flex strength N/mm <sup>2</sup>	82°C	100°C
	Mass loss %	102°C	115°C
CW 1446 BDF / HY 2919	Flex strength N/mm <sup>2</sup>	204°C	251°C
	Mass loss %	179°C	195°C
CW 2122 / HY 2123	Flex strength N/mm <sup>2</sup>	148°C	208°C
	Mass loss %	180°C	193°C
CW 2122 / HY 2901	Tensile Strength N/mm <sup>2</sup>	162°C	174°C
	Mass loss %	120°C	135°C
	<b>PUR systems</b>		
<b>XB 5640 / XB 5610</b>	Flex strength N/mm <sup>2</sup>	157°C	
<b>XB 5633 / XB 5610</b>	Tensile strength N/mm <sup>2</sup>		>150°C
	Mass loss %		approx. 90°C
<b>XB 5620 / XB 5610</b>	Tensile strength N/mm <sup>2</sup>		>150°C
	Mass loss %		approx. 90°C

# Thermal Endurance of ARALDITE Epoxy Castings Systems

System	Property	Temperature Index IEC 216	Thermal Class IEC 85
CY 225/SF/ HY 925	10% WL 50 % FS	186 199	H
CY 225/ HY 925	10% WL 50% FS	200 147	F
CY 225/SF/ HY 227	10% WL 50% FS	177 184	F
CW 229/ HW 229	10% WL 50% FS	186 201	H
CY 228/ HY 918	50% FS	145	B
CY 228/HY 918/ DY 062/SF	50 % FS	194	H
CY 228/SF/ XB 4500	10% WL 50% FS	193 194	H
CY 228/ HW 5787	50% FS	160	F
CY 184/ HT 907	10% WL 50% FS	169 163	F
XB 4549/SF XB 4500	10% WL 50% FS	190 199	H
ARALDITE F/ HY 905	50% FS 10% WL	152 187	F
ARALDITE F/ HY 905/DY 040	50% FS 10% WL	154 159	F
ARALDITE F/SF HY 905/DY 040	10% WL 50% FS	164 180	F H
XB 5995/SF/ XB 5996	10% WL 50% FS	175 224	F H
MY 790-1/ HY 1102	50% FS 10% WL	145 203	B H
XB 5959	50% FS	161	F

WL Weight Loss in respect to organic matrix  
 FS Flexural Strength  
 SF Silica Flour

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