

Division of Composite Business CHRONG YI CO., LTD. PRODUCT DATA SHEET	Document no. :DB400/M225-E Issue :B Date :01/07/2006 Approved by :Q.A.
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1. PRODUCT NAME DB 400/M225-E

2. COLOUR CODE Green

3. TYPICAL APPLICATIONS

This biaxial product is suitable for hand lay-up, vacuum bagging and RTM-process. The fabric is drapable, and conforms well to complex geometry components. Ideal for shear load supporting components and laterally loaded panels with aspect ratio from 1 to 3. Fibre contents above 50% is easily obtained with ordinary hand lay-up.

4. FABRIC SPECIFICATIONS

Layer orientation	Degree [°]	0	+45	90	-45	Mat
Layer weight	[g/m ²]		199		199	225
Material			E-glass		E-glass	E-glass
Weight, knitting yarn	[g/m ²]	:	14			
Weight, total	[g/m ²]	:	637 ± 5 %			
Standard roll width	[cm]	:	126			
Standard roll length (approx.)	[m]	:	60			
Standard roll weight (approx.)	[kg]	:	50			

5. TYPICAL LAMINATE PROPERTIES

Matrix type	Fibre weight fraction	Fibre volume fraction	Layer thickness
Isophthalic polyester	42.28[%]	25.63 [%]	0.95 [mm]

Mechanical property		0°	+45°	90°	-45°
Tensile modulus	ASTM D3039-76 [GPa]	5.6	10.3	5.6	10.3
Compressive modulus	ASTM D695 [GPa]	5.6	9.3	5.6	9.3
Tensile strength	ASTM D3039-76 [MPa]	158	288	158	288
Compressive strength	ASTM D695 [MPa]	157	261	157	261

*Laminate Plate Theory calculations **Test results

6. QUALITY ASSURANCE AND TYPE APPROVAL

CYMAX reinforcements are made of certified materials only, and the production is in conformance with the International Quality system Standard ISO 9001:2000.

Type approved by:	DNV	GL			
	X	X			

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