LOGI COMPOSITES & CHEMICALS TRADING LLC
Saih Shuaib 4, Plot No: 533-297, P.O. Box 17134
Dubai Industrial Park, Dubai - United Arab Emirates
Telephone: +971 4 368 5675, Facsimile: +971 4 368 4293
Email: info@logi.ae, Website: www.logi.ae

TOGETHER FOR SUCCESS

لوجي كومبوزيتس & كيميكالز للتجارة ش.ذ.م.م.
شيخ شعيب ٤، رقم القطعة ٢٩٧-٥٣٣، ص.ب.: ١٧١٣٤
مجمّع دبي الصناعي ، دبي - الامارات العربية المتحدة
هاتف: ٥٦٧٥ ٣٦٨ ٤ ٩٧١+ ، فاكس: ٤٢٩٣ ٣٦٨ ٤ ٩٧١+
بريد إلكتروني: info@logi.ae، موقع إلكتروني: www.logi.ae

TECHNICAL DATA SHEET (TDS)

Product Name: CHOPPED STRAND MAT - EMULSION

LOGI*mat* is the trade name of our Chopped Strand Mat manufactured by *M/s. Sichuan Weibo New Material Group Co., Ltd., China* and exclusively marketed by Logi Composites & Chemicals Trading LLC., United Arab Emirates. **LOGI*mat*** Chopped Strand Mat is made of randomly, yet evenly distributed strands chopped from continuous "E" – glass fibres into 50 mm length, bonded with "emulsion binder" possesses excellent surface bonding efficiency.

LOGI*mat* Chopped Strand Mat is compatible with Polyester, Vinyl Ester Resin and are used for moulding composite products by various process such as Hand Lay- Up, Wet Lay-up and in some case by Filament Winding Process. The products could be any GRP products, Sanitary products, Composite products or any Marine Crafts.

Properties:

- Easy air removal and rapid resin impregnation
- Drapes well to suit the surface of intricate moulds
- Fast wet through and wet out due excellent Styrene solubility of binder
- Excellent mechanical strength during production of finished product
- Easy handling and better appearance of the composite products
- Good surface bonding and high strand integrity

Approvals:

- As per **GB17470** which conforms to **BS3496**
- **Llyod's Registrar of Shipping**
- **DNV** Approval

Characteristics	Limits	Nominal Value					
		225g/m2	300g/m2	375g/m2	450g/m2	600g/m2	900g/m2
Width (cm)	+3, -0	100	100	100	100	100	100
Average Mass / area (gsm)	± 8%	225	300	375	450	600	900
Moisture Content %	0.20 max	0.20 max	0.20 max	0.20 max	0.20 max	0.20 max	0.20 max
Loss on Ignition %	± 2%	5.0	5.0	5.0	4.0	4.0	4.0
Strand Length (mm)	± 2	50	50	50	50	50	50
Strand Tex (g/Km)	± 2	32	32	32	32	32	32
Wet-out Time (Minutes)	± 2	3.5	3.5	4.0	4.0	4.5	5.0

Packaging:

Each roll covered by polyethylene plastic bag are placed in individual carton and palletized. Each pallet has vertical stack of 12 cartons and horizontal stock of 9 or 6 cartons. Net weight 46.00 Kilo / Carton.

Storage:

- Rolls should be protected from sun and to be stored vertically.
- Recommended storage conditions: Temperature 400C max, relative humidity 75.00% max.
- To avoid moisture condensation, store packages for 24 hours under workshop conditions, before use.

OTHER INFORMATION:
All information provided in the data sheet is believed to be accurate and reliable. We make no warranty of any kind, express or implied, including warranties of merchantability or fitness for a particular purpose, concerning the safe use of this material in your process or in combination with other substances. Users should make their own tests and assessments as to the suitability of this product or the information contained herein for their particular purposes and uses.

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Fiberglass Product

ECR-CSM-300 E/P

ECR-GLASS Chopped Strand Mat (Emulsion/POWDER)

Characteristics

It is specially designed for hand lay-up contact molding, and it has the below excellent performance:

- Good wet-out in resin
- Multi-resin-compatible
- Good tensile with flexibility
- Highly soluble resin binder
- Excellent fiber distribution
- Uniform weight
- Excellent translucency

Specifications

Test Item	Unit	Standard
Area Weight	G/m2	300±10%
Binder Content	%	2-8%
Water Content	%	<0.5
Tensile Strength MD	N/150 mm	≥40
Tensile Strength CD	N/150 mm	≥40
Width	mm	—
Color	White, slightly yellow	

Packing and Storage

Each roll is packed in a plastic bag and is wrapped up in a sleeve, then putted on carton.

It should be stored in closed containers at temperature between -10C and 40C for no more than 12 months, and protected from frost and direct sunlight.

A Limited Liability Company Incorporated in Dubai Industrial Park (City) in the Emirates of Dubai
Paid up Share Capital AED500,000.00 I License No. 712837 I Register No. 1140266 I DCCI No. 237381

شركة ذات مسؤولية محدودة مسجلة في مجمّع دبي الصناعي (مدينة) في إمارة دبي
رأس المال المدفوع ٥٠٠،٠٠٠،٠٠ درهم إماراتي | ترخيص رقم ٧١٢٨٣٧ |سجل رقم ١١٤٠٢٦٦ | DCCI رقم ٢٣٧٣٨١

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Fiberglass Product

ECR-CSM-450 E/P

ECR-GLASS Chopped Strand Mat (Emulsion/Powder)

Characteristics

It is specially designed for hand lay-up contact molding, and it has the below excellent performance:

- Good wet-out in resin
- Multi-resin-compatible
- Good tensile with flexibility
- Highly soluble resin binder
- Excellent fiber distribution
- Uniform weight
- Excellent translucency

Specifications

Test Item	Unit	Standard
Area Weight	G/m2	450±10%
Binder Content	%	2-8 %
Water Content	%	<0.3
Tensile Strength MD	N/150 mm	≥50
Tensile Strength CD	N/150 mm	≥50
Width	mm	—
Color	White, slightly yellow	

Packing and Storage

Each roll is packed in a plastic bag and is wrapped up in a sleeve, then putted on carton.

It should be stored in closed containers at temperature between -10C and 40C for no more than 12 months, and protected from frost and direct sunlight.

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Fiberglass Product

ECR-CSM-600 E/P

ECR-GLASS Chopped Strand Mat

Characteristics

It is the chopped strand mat that is specially designed for hand lay-up contact molding, and it has the below excellent performance:

- Good wet-out in resin
- Multi-resin-compatible
- Good tensile with flexibility
- Highly soluble resin binder
- Excellent fiber distribution
- Uniform weight
- Excellent translucency

Specifications

Test Item	Unit	Standard
Area Weight	G/m2	600±10%
Binder Content	%	3. 7+/−0. 8
Water Content	%	<0.2
Tensile Strength MD	N/150 mm	80
Tensile Strength CD	N/150 mm	80
Width	mm	
Permeation Rate	s	<60
Color	White, slightly yellow	

Packing and Storage

Each roll is packed in a plastic bag and is wrapped up in a sleeve. It should be stored in closed containers at temperature between -10C and 40C for no more than 12 months, and protected from frost and direct sunlight.

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TECHNICAL DATA SHEET (TDS)

Product Name: **CHOPPED STRAND MAT - POWDER**

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LOGI*mat* Chopped Strand Mat is compatible with Polyester, Vinyl Ester Resin and are used for molding composite products by various process such as Hand Lay-Up, Wet Lay-up and in some case by Filament Winding Process. The products could be any GRP products, Sanitary products, Composite products or any Marine Crafts.

Properties:

- Easy air removal and rapid resin impregnation
- Drapes well to suit the surface of intricate moulds
- Fast wet through and wet out due excellent Styrene solubility of binder
- Excellent mechanical strength during production of finished product
- Easy handling and better appearance of the composite products
- Good surface bonding and high strand integrity

Approvals:

- As per **GB17470** which conforms to **BS3496**
- **Llyod's Registrar of Shipping**
- **DNV** Approval

Characteristics	Limits	Nominal Value					
		225 g/m²	**300 g/m²**	**375 g/m²**	**450 g/m²**	**600 g/m²**	**900 g/m²**
Weight (average mass/area (gsm)	± 8%	225 ± 18g/m²	300 ± 24g/m²	375 ± 30g/m²	450 ± 36g/m²	600 ± 48g/m²	900 ± 72g/m²
Width (mm)	±5mm	1250	1250	1250	1250	1250	1250
Strand Length (mm)		50	50	50	50	50	50
Sizing		Silane	Silane	Silane	Silane	Silane	Silane
Filament Diameter		11-13 um	11-13 um	11-13 um	11-13 um	11-13 um	11-13 um
Binder Content (%)	±5%	4.0 ± 0.5	4.0 ± 0.5	4.0 ± 0.5	4.0 ± 0.5	4.0 ± 0.5	4.0 ± 0.5
Moisture Content (%)		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Loss on Ignition (%)	±2%	5.0	5.0	5.0	4.0	4.0	4.0
Compatibility		UP resin	UP resin	UP resin	UP resin	UP resin	UP resin
Wet-out Time (Seconds)	<250	50	50	50	50	50	50

Packaging:

Each roll covered by polyethylene plastic bag are placed in individual carton and palletized. Each pallet has vertical stack of 12 cartons and horizontal stock of 9 or 6 cartons. Net weight 46.00 Kilo / Carton.

Storage:

- Rolls should be protected from sun and to be stored vertically.
- Recommended storage conditions: Temperature 40^0C max, relative humidity 75.00% max.
- To avoid moisture condensation, store packages for 24 hours under workshop conditions, before use.

OTHER INFORMATION:
All information provided in the data sheet is believed to be accurate and reliable. We make no warranty of any kind, express or implied, including warranties of merchantability or fitness for a particular purpose, concerning the safe use of this material in your process or in combination with other substances. Users should make their own tests and assessments as to the suitability of this product or the information contained herein for their particular purposes and uses.