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**OLYMPUS**  
Marketing, Inc.

www.olympus.com.ph

**Poly Klear**  
FIBERGLASS + RESIN**MATERIAL SAFETY DATA SHEET**

ACM BLUE GLASS FIBER E-WR/CSM COMBO MAT

**SECTION 1- PRODUCT IDENTIFICATION**

PRODUCT - ACM BLUE GLASS FIBER E-WR/CSM COMBO MAT  
MATERIAL - FIBERGLASS  
FINISH - NATURAL

**SECTION 2- HAZARDUS INGREDIENTS**

CHEMICAL	MAX%(by weight)	UN#	CAS#	TLV(source)	PET(source)
fiberglass	98.7	not assigned	not assigned	not listed	not listed
fiberglass dust	not known	not assigned	not assigned	5mg/m3 (inhalable)	5mg/m3 (respirable)

AMOUNT WILL BE DEPENDENT UPON METHOD OF HANDLING

**SECTION 3- OTHER INGREDIENTS**

ITEMS LISTED IN THIS SECTION ARE EITHER CHEMICALLY OR PHYSICALLY BONDED TO THE FIBERGLASS TEXTILE AND ARE DEEMED NON HAZARDOUS IN THE STATS SUPPLIED.

CHEMICAL AND CHEMICAL NAME	MAX%(by weight)
Lubricants and humoctants	3.0

**SECTION 4- PHYSICAL DATA**

SPECIFIC GRAVITY : APPROX. 2.5  
APPEARANCE/PHYSICAL STATE : WHITE/SOLID  
ODOR : NO DISTINCTIVE ODOR

**SECTION 5- FIRE HAZARD DATA**

FLASH POINT	: NOT APPLICABLE
FLAMMABLE LIMITS	: NOT APPLICABLE
EXTINGUISHING MEDIA	: WATER/DRY POWDER OR FOAM (NEEDED FOR PACKAGING ONLY)
SPECIAL FIRE FIGHTING PROCEDURE	: IN ANY SUSTAINED FIRE WEAR SELF-CONTAINED BREATHING APPARATUS
USUAL FIRE HAZARDS	: IN A SUSTAINED FIRE, COMBUSTIBLE DECOMPOSITION PRODUCTS MAYBE RELEASED, THESE PRODUCTS INCLUDE CARBON DIOXIDE, CARBON MONOXIDE AND LOW MOLECULAR WEIGHT HYDROCARBONS.

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## SECTION 6- HEALTH HAZARD DATA

POTENTIAL ROUTES OF ENTRY : INHALATION, SKIN CONTACT

EFFECTIVE OF OVEREXPOSURE : DIRECT SKIN CONTACT WITH FIBERGLASS OR ITS DUST MAY CAUSE MECHANICAL IRRITATION AND TRANSITORY OF THE MOUTH, NOSE AND THROAT. TEXTILE SIZING NORMALLY BURN OFF OF THE SURFACE OF THE FIBERGLASS. THE FIRST TIME THE PRODUCT IS HEATED TO ABOUT 400F, IF THIS OCCURS WITH INADEQUATE VENTILATION SOME SMOKE MAY ACCUMULATE CAUSING TEMPORARY IRRITATION OF THE EYES, NOSE AND THROAT.

### EMERGENCY AND FIRST AID PROCEDURE:

INHALATION	: MOVE TO FRESH AIR AREA
INGESTION	: NOT LIKELY TO OCCUR THROUGH NORMAL USE SHOULD INGESTION OCCUR SEEK MEDICAL ATTENTION.
EYES	: FLUSH WITH FLOWING WATER FOR 15 MINUTES, SEEK MEDICAL ATTENTION.
SKIN	: FLUSH WITH AMPLE COOL WATER FOLLOWED BY WASHING WITH MILD SOAP TO REMOVE ACCUMULATE FIBERS.
CARCINOGEN	: NOT CLASSIFIED AS REGULATED UNDER ACGIH, IARC, NTP OF SHA. INDUSTRY STUDIES HAVE SHOWN TEXTILE GRADE FIBERGLASS TO BE A NON-CARCINOGEN.

## SECTION 7- SPECIAL PROTECTION REQUIRED

EXPOSURE TO FIBERGLASS MAY CAUSE MECHANICAL IRRITATION TO THE SKIN, EYES, NOSE AND THROAT. TYPICALLY SUCH IRRITATION OCCURS TO NEWLY EXPOSED INDIVIDUALS AND USUALLY DIMINISHES AFTER SEVERAL DAYS OF EXPOSURE.

RESPIRATORY: IF AIRBORNE FIBERGLASS EXCEEDS THE REGULATORY LIMITS, OR IF UPPER RESPIRATORY IRRITATION OCCURS, USE A RESPIRATOR DESIGNED FOR NUISANCE TYPE DUST.

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FIBERGLASS + RESIN**TECHNICAL DATA SHEET****ACM BLUE GLASS FIBER E-WR/CSM COMBO MAT****PRODUCT NAME : ACM BLUE GLASS FIBER****Material code: E-WR/CSM1050****Type: E-glass****DESCRIPTION**

**Combo Mat** is a fabric made by Woven Roving with Chopped Strand Mat connecting through stitch yarn and is mainly used for hand lay-up process or mechanical process for large, high-strength FRP products such as boats, railroad carriages, storage tanks and architectural structures, etc. The roving sizing system of combo mat is silane and specification 1058g/m<sup>2</sup> or 1,250 mm or 1,270 mm, compatible with polyester, vinyl ester and epoxy resin.

**PROPERTIES**

1. Silane coupling
2. Fast wet-out
3. High mechanical strength
4. Good moldability

**TECHNICAL CHARACTERISTICS**

Item	Standard Value	Test Method
Area weight (g/m <sup>2</sup> )	± 7% EWR600g/m <sup>2</sup> + CSM450g/cm <sup>2</sup> Stitch yarn 8g/m <sup>2</sup>	ISO3374
Loss on ignition (%)	1-7	ISO1887
Moisture content (%)	≤ 0.15	ISO3344
Width (mm)	1,270± 10	ISO5025
Roll weight (kg)	50	NA

**Packaging**

Each roll in PE bag and then put into carton and pallet.

**Product storage**

Unless otherwise specified, it should be stored in a cool, dry, water-proof area. Avoid dust and dampness. Keep room temperature at 15-35°C and humidity at 35-65%, respectively.

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