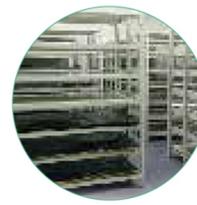
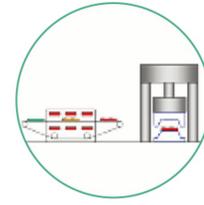


# GEMBOARD® Thermoplastic Sheets

**GEMBOARD®** series are high-performance thermoplastic composite sheets with continuous fibre-reinforced thermoplastic resins provide high strength, high rigidity and light weight performance while being injection bondable for most product manufacturing such as sports equipment, 3C electronics, automotive industry and rail transportation, in line with the industry trend of green power and sustainability.



1.EASY STORAGE



2.FAST MOULDING



3.RECYCLABLE&REUSABLE

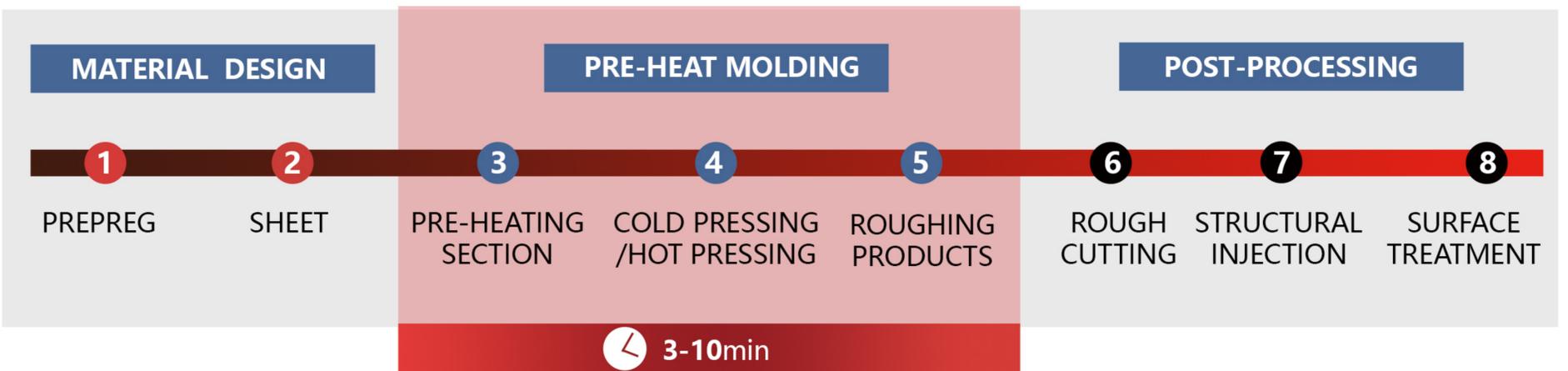
## TYPES AND CHARACTERISTICS

Products	Types	Thickness (±10%) mm	Characteristics	Applications
GEM102X1	Thermoplastic Epoxy	0.2~3.0	Thermoplastic epoxy system, excellent wettability with reinforcing fibers, good high strength, processing good performance. GEM102X2 can achieve UL94 V-1 flame-retardant performance.	Sports equipment, 3C electronic products, automobile car industry, machinery parts, shoe materials parts.
GEM102X2	Thermoplastic Epoxy	0.2~3.0		
GEM301C1	PC	0.2~3.0	High impact strength, low shrinkage rate, good dimensional stability. Good stability, good weather resistance, good electrical insulation.	Sports equipment, 3C electronic products, shoe parts, rail transportation.
GEM401A1	PA6	0.2~3.0	Excellent toughness, fatigue resistance, small friction coefficient, weather resistance, good electrical insulation.	Sports equipment, automotive industry.
GEM501P1	PP	0.2~3.0	Low density, low water absorption, stable chemical properties, good electrical insulation, easy to shape and process.	Automotive industry, building materials industry.
GEM601U1	TPU	0.2~3.0	Outstanding impact resistance and shock absorption performance, good cold resistance, good processing performance.	Sports equipment, transportation.

## PRODUCT APPLICATIONS



## SECONDARY MOLDING PROCESS FLOW CHART



## THERMOPLASTIC : RECYCLE & REUSE



### STEP 1

Collection of trimming waste & recyclable parts



### STEP 2

Shredded into long / short composite fiber



### STEP 3

Fiber - containing plastic pellets



### STEP 4

Re - forming the part using injection molding