

## Part List: Innovative Components of Thermoplastic Composites

#	Part	Weight	OEM	Manufacturer	Material	Material Supplier	Process
1	Pedestrian protection lower bumper stiffener	1,0 kg	Opel	Plastic Omnium	PAGF	BASF	IM
2	Ventilation Flap Control	0,9 kg	BMW	Röchling	PPGF, PAGF	Röchling	IM / LFT-G
3	Crash absorber lower load path	0,25 kg			PAGF	BASF	IM
4	Frontend Carrier	4,6 kg	Peugeot		PPGF		IM / LFT-D
5	Cooling-Tube (PIT-tube)	0,2 kg	BMW	Röchling	PAGF	RHODIA	IM / PIT
6	Engine Undershield	2,6 kg	BMW	Rieter	LFT-D + GMTex PPGF	Rieter, Quadrant	CM / LFT-D
7	Battery Tray	1,5 kg	Daimler	Rieter	Tailored LFT PPGF	Rieter	CM / LFT-D
8	Electric Accelerator Pedal	0,6 kg	VW	Hella	Celstran® PPGF	Ticona	IM / LFT-G
9	Brake Pedal Bracket	0,3 kg	Renault	Neyr Plastic Industries	Celstran® PPGF	Ticona	IM / LFT-G
10	Instrument Panel Carrier	3,2 kg	Daimler	Johnson Controls	FACTOR® PP LGF	Ticona	IM / LFT-G
11	Underbody Shield (UBS)	1 kg	BMW	Takeo GmbH	SymaLITE Ultra A (PPGF)	Quadrant	LPCM / LWRT
12	Sunroof module	0,8 kg	GM/Opel	Arvin Meritor	Celstran® PPGF	Ticona	IM / LFT-G
13	Rear Seatback (prototype)	4,5kg		Weber Fibertech / Esoro	E-LFT PPGF	Esoro	CM / E-LFT
14	B Pillar crash reinforcement insert	1,0 kg	Jaguar	Sika	PAGF	BASF	IM
15	Spare-Wheel Pan	3,8 kg	VW		Tailored LFT-D (PPGF)		CM / LFT-D
16	Cover Spare-Wheel Pan	2,0 kg	Daimler	Rieter	PPNF	Rieter	CM / LFT-D
17	Tailgate	4,6 kg	Smart	Weber Fibertech / ESORO	E-LFT (PPGF, PPGF)	Weber Fibertech	CM / E-LFT
18	Rollover bar	7,4 kg	Daimler	Quadrant Metal Plastic Solutions / Minda Schenk	LFT-D + GMTex PPGF	Quadrant	CM GMTex
19	Bumper	4 kg	BMW	Jacob Composite	TEPEX® Dynalite (PA6GF)	Bond Laminates	TF, TB
20	Door module	0,9 kg	Chrysler	Faurecia	PPGF		IM
21	Door module	1,2 kg	Chrysler	Faurecia	PPGF		IM

Legend: CM: Compression Moulding, LPCM: Low Pressure Compression Moulding, IM: Injection Moulding, TF: Thermo-Forming; TB: Thermo-Bending, PIT: Projectile Injection Technology, LFT: Long fibre reinforced Thermoplastics, LFT-G: LFT- Granulate, LFT-D: Direct-LFT compounding, E-LFT: Endless (fibre) and LFT, LWRT: Low weight Reinforced Thermoplastic, GMTex: Glass Mat reinforced Thermoplastics with continuous fibres

# European Alliance for Thermoplastic Composites

## Thermoplastic Composites – Maximise the benefits

# EATC

Fraunhofer  
Institut  
Chemische Technologie

### VISION and TARGETS of the EATC

The Vision of the EATC is to further utilise the huge still unused potential of Thermoplastic Composites to the maximum benefit of the industry, customers and environment.

#### The Mission of the EATC is to

- Increase the understanding and acceptance of long fibre reinforced thermoplastic composites.
- Assist designers and manufacturers by supplying design guidelines and material classification.
- Increase the technical competences in the market of thermoplastic composites.

#### The targets to be met by advanced material systems in the Automotive Industry are

- reduction of fuel consumption
- higher safety standards
- more comfort
- recyclability
- low costs



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