

Part List: Innovative Components of Thermoplastic Composites

What is LFT

- Lightweight material
- Composites material - Abbreviation for „Long Fibre Reinforced Thermoplastics“
- Economic substitute for aluminium, steel, ...

Who we are

- EATC: The European Alliance for Thermoplastic Composites
- We are an expert task force of the AVK (Federation of Reinforced Plastics)
- EATC was formed in 2000 by leading European companies in the field of LFT (Long Fibre Reinforced Thermoplastics)
- Our members serve the industries with innovative and economic components and systems

Advantages – Clear and Brief

- Weight reduction
- Emission reduction (exhaust gas, noise)
- One-shot-solution to reduce cost
- Meeting better safety standards
- Cost reduction
- Recyclability
- Corrosion resistance
- Volume production possible

Our Member-Companies



#	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	Autoneum, Quadrant	CM / LFT-D
7	Battery Tray	1,5 kg	Daimler	Rieter	Tailored LFT PPGF	Autoneum	CM / LFT-D
8	Electric Accelerator Pedal	0,6 kg	VW	Hella	Celstran® PPLGF	Ticona	IM / LFT-G
9	Brake Pedal Bracket	0,3 kg	Renault	Neyr Plastic Industries	Celstran® PPLGF	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® PPLGF	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	Autoneum	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, LGF: Long glass fibre, NF: Natural fibres