

HIGH-VOLTAGE EV BATTERY PACK ENCLOSURE DEMONSTRATOR

SABIC offers high-performance flame retardant (FR) materials from our families of SABIC® polypropylene compounds (PPc) and STAMAX™ long glass fiber (LFG) PP resins. In addition, our portfolio of engineering thermoplastics (ETP) such as LEXAN™ polycarbonate (PC) resins and several polybutylene terephthalate (PBT), polyester (PET) and PC blends offers design advantages of various EV battery pack components. Together, these materials can deliver, higher-performing battery pack solution.

SABIC VALUE PROPOSITION

	UNIQUE MATERIALS		MANUFACTURING KNOW-HOW		ASSEMBLY KNOW-HOW
	FIRE-POLYMER INTERACTION		APPLICATION DESIGN AND VERIFICATION		VALUE CHAIN COLLABORATION

Product Line	Grade	Glass Filler Loading	UL94 V0 Thickness (mm)	Melt Flow Rate (g/10 min)	Tensile Modulus (MPa)	Charpy Impact Notched (kJ/m2)
SABIC PPc	H1030	30	1.5	8, 230°C/ 2.16 kg	8700	8
STAMAX™	30YH570	30	1.3	-	7700	14
VALOX™	420SE0	30	0.71	42, 250°C/5.0 kgf	10000	7
LEXAN™	3412ECR	20	1.5	7, 300°C/1.2 kgf	6000	6
CYCOLOY™	C6600	0	1.5	21.5, 260°C/2.16 kgf	3000	15



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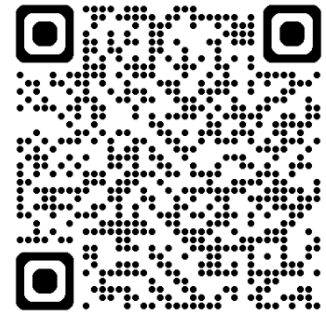
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