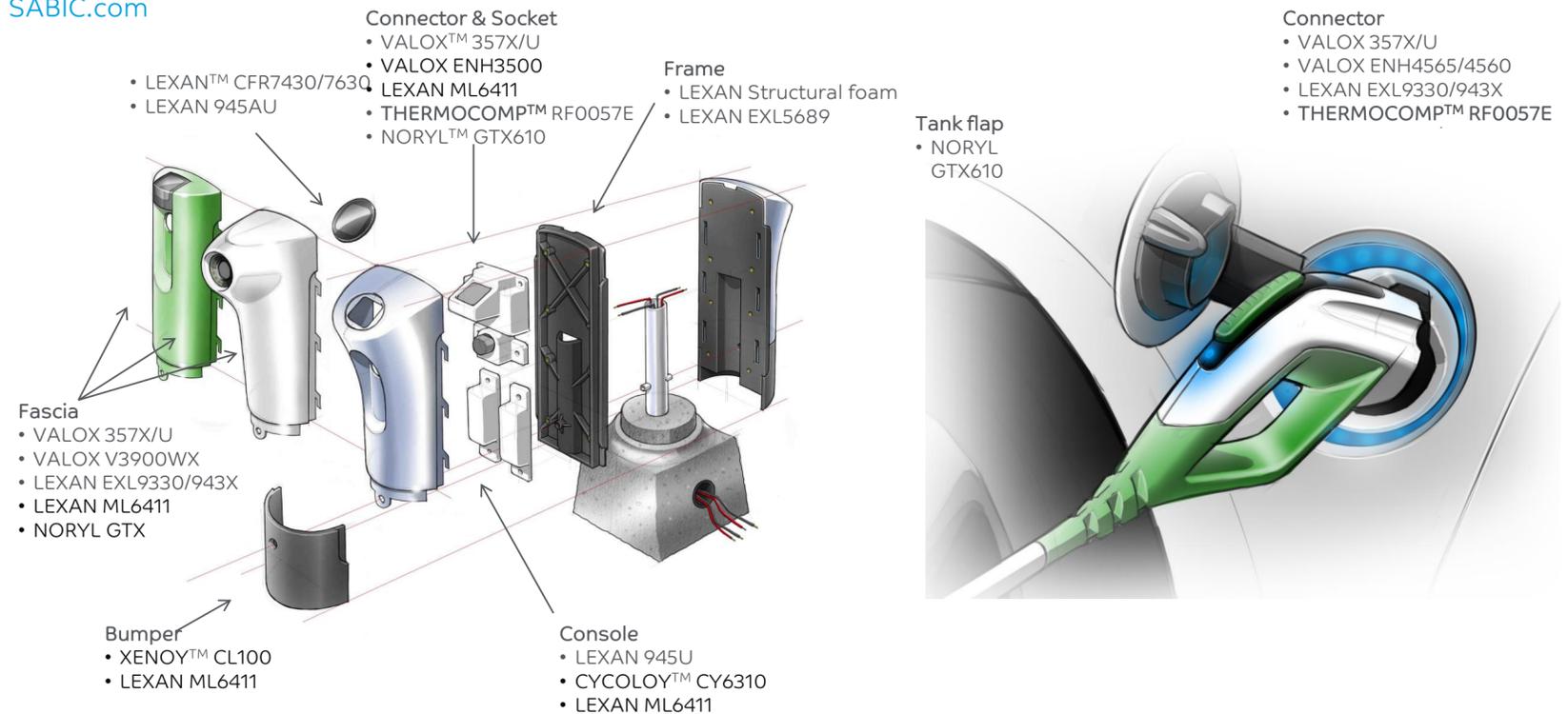


SABIC SOLUTION FOR EVSE

EV supply equipment (EVSE)

EV supply equipment include conductors, such as the phase, neutral and protective earth conductors, the EV couplers, attachment plugs, and other accessories, devices, power outlets or apparatuses installed specifically for the purpose of delivering energy from the premises wiring to the EV and allowing communication between them if required. SABIC has a wide range of resins and other material choices listed below that may be suitable for this application, and we can help customers to comply with Europe / US / APAC regulations and bring extra value to customers.

SABIC.com



REGULATION AND INDUSTRY REQUIREMENT:

Europe : IEC 61851-1 & 22, 23: 2010 (AC/DC):
Degree of Protection: IP degree
Environment test (for charging station):
 Ambient air temperature test; Dry test
 Ambient humidity test
 Cold test(-30 ± 3°C / 16h)
Impact Test: station body not damaged

Asia: GB/T 18487.1 general
 Equal to IEC 61851-1 2001
 GB/T 18487.3
 equal to IEC 61851-22:1999 AC
 & IEC 61851-23:1999 DC
 Japan adopting IEC 61851-1 & 22: 2010

US: UL 2594 (AC)/UL 2202 (DC)
Flammability: Mainly 5VA (dep. product type)
 CTI: 3 or better, HWI and HAI: depend on FR
Mechanical strength: Impact: after aging at -30C / 24hr;
 Drop test (portable equipment)
Environmental Tests (UL 50E): - UV exposure: F1,
 UL746C, Solvents test; RTI: Higher than the temp
 observed on Temperature Rise Test

SABIC VALUE:

LEXAN EXL: High Stiffness/Impact at minus 30°C
 Customer color: antrazith
 UL94-V0-3 mm in combination with f1/5VA
 Low halogen content & bromine free FR
 Ductility at -20 to -60°C,
 medium to high flow F1, 5VA, PLC 3

VALOX : Unfilled PBT/PC alloy,
 UL94 V0@ 0.63 -1.5mm, 5VA@3mm
 RTI 120C,CTI 2
 UV stabilized, UL746C F1 all color
 Good chemical resistance, impact

THERMOCOMP: THERMOCOMP™ RF0057E
 PA66 base 25% GF Non-
 Brominated & Non-Chlorinated FR
 V0 @ 0.4mm, 5VA @ 1.6mm
 GWIT (0.4mm) 775C CTI 600V
 RTI 140C/110C/140C HWI (PLC) 0
 Good color-ability

Contact us at Mainland China: 400-833-1033, Hong Kong: 800-903-909, Taiwan: 800-530-588

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