

## PLUG-IN WITH SABIC'S SPECIALTY MATERIALS WELL-SUITED FOR FAST CHARGING ELECTRIC VEHICLE SERVICE EQUIPMENT

The electric vehicle (EV) charging infrastructure is growing rapidly throughout the world.

Charging needs and locations for EV's will be supported through several mediums: charging at home, at work, or on the road. Regardless of where you are charging, **SABIC's LNP™ THERMOCOMP™ compound and LNP™ ELCRIN™ iQ resins** can provide superior impact & chemical resistance, high surface aesthetics, high weatherability and superior UV resistance, to name a few. This material would be well-positioned in applications such as sockets, cabinet housings, and charger cables.

### EV CHARGER CABINET HOUSING & CHARGER HANDLE HOUSING

#### KEY FEATURES:

- Design freedom
- High aesthetics
- Excellent weatherability & UV stability
- Flame performance – V0 at 0.75mm to 3mm, 5VA at 2mm to 4mm, non-Br, non-Cl
- Toughness & high impact
- Chemical resistance
- Light weighting potential up to 15%
- Sustainable solutions available



### EV CHARGING SOCKET

#### KEY FEATURES:

- CTI PLC 0 performance
- High RTI >130°C
- Good processability
- High stiffness
- Flame performance - Non BR non CL
- Good chemical resistance
- Sustainability solutions available



# SABIC EVSE SOLUTIONS

		LNPT™ ELCRIN™ WF0061iQ resin	LNPT™ THERMOCOMP™ DX09402 compound	LNPT™ ELCRIN™ 610009UXiQ resin
		SOCKET	HOUSING	HOUSING
PART PERFORMANCE	Vandalism proof, ductility	High stiffness	Good impact, Design for structural foam (up to 15% weight reduction)	Good impact, Ductile at -30°C
SAFETY, RELIABILITY	Flame performance	V0 at 0.8 mm 5VA at 1.5 mm GWFI 960°C at 0.8 mm Non-Br, non-Cl	V0 at 3mm (foam part) 5VA at 4mm (foam part) Non-Br, Non-Cl	V0 at 0.63mm 5VA at 2.5mm GWFI 960°C at 1 mm
	Electrical performance	RTI 140°C CTI PLC 0	—	RTI 120°C CTI PLC 2
	Thermal performance	Ball pressure test 175°C	—	Ball pressure test 125°C
	Environmental	f1	F1	f1
	Sustainability	25% PCR content	—	19% PCR content
AESTHETICS	UV resistance Color-ability	Excellent	Excellent	Excellent
RESISTANCE TO CHEMICALS		Excellent	Good	Excellent

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MOBILITY

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