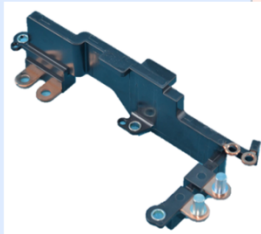
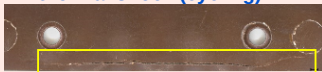
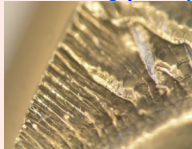
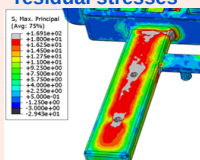
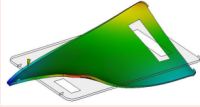
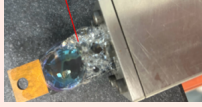
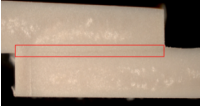


Overmolding



APPLICATIONS (CTD) - CONFIDENTIAL		TECHNICAL CONCERNS /CHALLENGES/ISSUES	CAPABILITIES	
Metal overmolding with thermoplastics (TP)		thermal shock (cycling) 	Overmolding Capabilities (all regions)     ...	
	busbar (PPS-metal)	stress-cracking (ESCR) 		
Metal overmolding with elastomers		residual stresses 		
	engine crankshaft seal (FKM-metal)	core shift 		
TP overmolding with TP /elastomers		warpage (with thin metal frames) 		
	hand pruner (ixef1022-silicone)	metal overmolding - thermal studies 		
TPC/TSC overmolding with TP /elastomers		adhesion to metal and tightness 		current overmolding projects - status (Aug 2024)
		adhesion to thermoplastics 		

adhesion to thermoplastic or thermoset composites



insert overmolding vs. 2K molding

*[Link to EV busbar program](#)
(electrification initiative)*

**overall document about the use of VE in
busbar**

Guy Van Meulebeke	Team (Aug 2024)						
	R&I (ADL)					R&I (core labs)	R&I (engineer
Tokyo/Fuji	Toshio Hatayama	Toru Tsujimura					
Seoul	Kwang-kil Mun						
Shanghai	Hanson Li	Lingjin Rao	Chao Qian				
Alpharetta	Greg Santoro	Greg Plithides	Elias Irick	Ben Reck	Mike Kitchens		Glenn
Brussels	Guy	Benoit Devaux					
US West Deptford							
Bollate	Rosaria Anastasio	Gianbattista Besana					