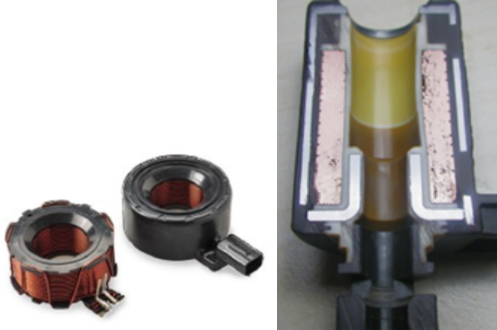
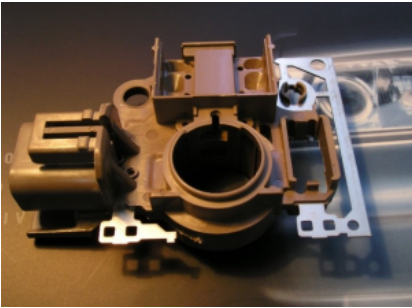
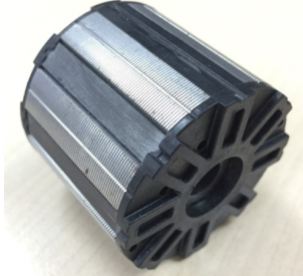


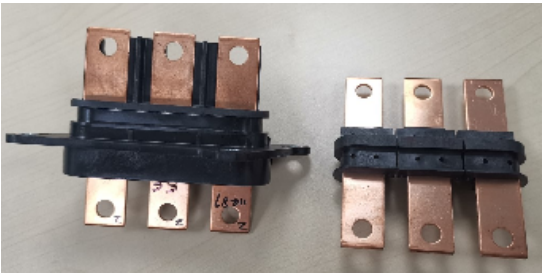




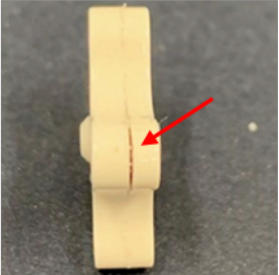
Metal overmolding with thermoplastic

Hereafter a list of some commercial applications for which our polymers have been used (successfully) in a metal insert overmolding.

Application	Picture	Polymer	Insert material	CTD ref. / Comments
Threaded fitting		PPSU Radel	Brass or Steel	Phil Martin
Split for Smartphone		PAEK Avaspire	Metal frame AL - SUS - Mg - Ti	Li Connor
Active Purge Pump Stator		PPA Amodel AE-4133	Copper winding	Stefano Montani
brackets for cooling lines		PPS Ryton XE-5030	Steel	Marc Schelles
Handle of reusable surgical instruments		PPSU Radel	Stainless steel	Federico Baruffi
Coil Bobbin		PPA Amodel	Tin plated copper	Shigeki Kanatani
Solenoid valve		PPA Amodel, PPS Ryton	Copper bobbins	
actuator coils for diesel injectors		PPA Amodel AS-4133HS	copper wire winding	

<p>Alternator Brush holder</p>			<p>Aluminum - Stainless steel</p>	
<p>EPS Rotor motor</p>				
<p>Alternator slip ring</p>		<p>PPS Ryton</p>	<p>Copper</p>	
<p>Fuse connection</p>		<p>PPSU Radel</p>	<p>Stainless steel</p>	
<p>Electric connector</p>		<p>PPS Ryton</p>	<p>Copper</p>	
<p>Busbar for inverter traction motor</p>		<p>PPA Amodel</p>	<p>Copper</p>	

<p>Triphase busbar unit</p>		<p>PPS Ryton</p>	<p>Copper</p>	
<p>Air duct manifold</p>		<p>PPA Amodel, PPS Ryton</p>	<p>Stainless steel</p>	
<p>Fitting</p>		<p>PPSU Radel</p>	<p>Stainless steel</p>	<p>Phil Martin</p>
<p>Pump Impeller</p>		<p>PPS Ryton</p>	<p>Brass - Stainless steel</p>	<p>Paul Prozeller</p>
<p>Vane tips vacuum pump (brake system)</p>		<p>PEEK</p>	<p>PPS</p>	
<p>Electrical switch</p>		<p>PESU Veradel</p>	<p>Steel</p>	
<p>Leak detector</p>		<p>PPS Ryton</p>	<p>Stainless steel</p>	<p>Phil Martin</p>
<p>Thermostat housing</p>		<p>PPS Ryton, PPA Amodel</p>	<p>Steel - Brass</p>	

<p>Fruit juice impeller</p>		<p>PARA Ixef</p>	<p>Steel</p>	<p>Philippe Brasseur</p>
<p>magnets overmolding</p>	<p><i>The magnets are inserted</i></p>  <p><i>After complete overmolding</i></p> 	<p>PPSU Radel R5100</p>	<p>metal</p>	<p>Philippe Brasseur /delamination due to lack of adhesion when overmolding (second shot), rather well predicted</p>