

# **EXHIBIT 6**

# U.S. Patent No. 7,067,944

Claim 3

Toyota / Aisin Large Pump

Toyota P/N 161A0-29015

Aisin P/N WPT-190

"3. A motor comprising:"

3. A motor comprising:

The Toyota / Aisin Water Pump (the "Aisin Pump") has a Toyota part number 161A0-29015 and Aisin part number WPT-190:



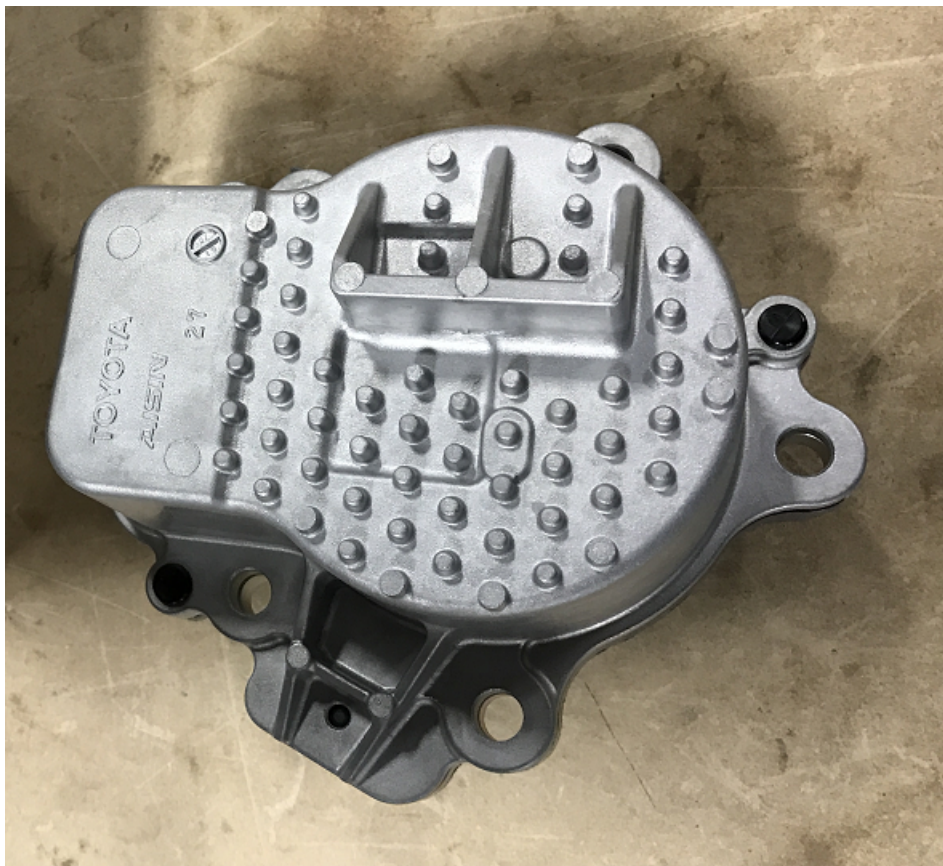
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O.E. Part #	Manufacturer	AISIN Part #
16120-49046	Toyota	WPT-065
16120-49055	Toyota	WPT-065
16120-49065	Toyota	WPT-084
16120-49080	Toyota	WPT-084
161A0-29015	Toyota	WPT-190
161A0-39015	Toyota	WPT-190
161A0-39025	Toyota	WPT-191

Aisin Cooling Catalog 2016.pdf at 145 (hereinafter "Aisin Cooling Catalog"), available at <http://aisinaftermarket.com/FlipBook/CoolingCatalog/mobile/index.html> (downloaded Dec. 6, 2016)

"3. A motor comprising:"

The Aisin Pump is marked with both the Toyota and Aisin logos:



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The Aisin Pump is a water pump and is believed to be installed in the following 2016 Toyota models:

Toyota Prius C Persona Series 1.5L L4 – Electric/Gas

Toyota Prius C Four 1.5L L4 – Electric/Gas



"3. A motor comprising:"

Toyota Prius C Two 1.5L L4 – Electric/Gas

Toyota Prius C Three 1.5L L4 – Electric/Gas

Toyota Prius C One 1.5L L4 – Electric/Gas

Toyota Prius V Five 1.8L L4 – Electric/Gas

Toyota Prius V Two 1.8L L4 – Electric/Gas

Toyota Prius V Four 1.8L L4 – Electric/Gas

Toyota Prius V Three 1.8L L4 – Electric/Gas



<http://o.aolcdn.com/dims-global/dims3/GLOB/resize/708x398/quality/60/http://o.aolcdn.com/commerce/autodata/images/USC60TOC161D022000.jpg>

See also <http://parts.olathetoyota.com/oe-toyota/161a039025> (accessed December 12, 2016).

The Aisin Pump is made in Japan:

"3. A motor comprising:"



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The Aisin Pump is an electric pump assembly, as indicated on the packaging label directly above and as listed below on the purchase receipt.

"3. A motor comprising:"



*Henry Thomas*  
**OLATHE TOYOTA**

685 N. Rawhide  
 Olathe, Kansas 66061  
 Tollfree: (800) 598-1970 · Phone (913) 780-9919 · Wholesale Parts (913) 782-1370 · Fax (913) 780-5062  
 E-mail: parts@olathetoyota.com · Web: www.olathetoyota.com  
 ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS INVOICE.  
 NO RETURNS ON ELECTRICAL OR SPECIAL ORDER PARTS.  
 NO RETURNS AFTER 90 DAYS. 25% RE-STOCK CHARGE ON ALL RETURNED PARTS.

**DISCLAIMER OF WARRANTIES**  
 All expressed warranties, if any, by a Manufacturer or supplier other than the Dealer are theirs, not Dealer's, unless otherwise provided in writing on the face of this order or in a separate writing furnished to Customer by Dealer.  
**ALL PARTS INSTALLED ARE NEW UNLESS SPECIFIED OTHERWISE AS BEING USED OR REMANUFACTURED.**

DATE ENTERED 02 DEC 16	YOUR ORDER NO. 28023	DATE SHIPPED 02 DEC 16	INVOICE DATE 02 DEC 16	INVOICE NUMBER 645567
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**\*\*PREPAID\*\***  
 ACCOUNT NO. P65  
 GRIFF NEAL  
 707 S. VERMONT ST  
 PALATINE, IL 60067

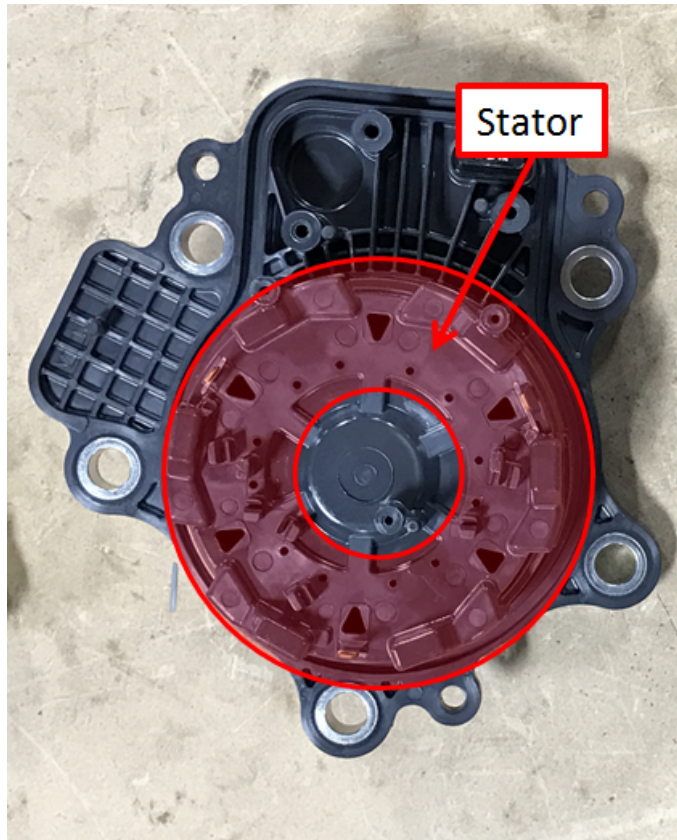
PAGE 1 OF 1  
 GRIFF NEAL  
 707 S. VERMONT ST  
 PALATINE, IL 60067

QTY	UNIT	PART NO.	DESCRIPTION	LIST	NET	AMOUNT
1	1	80960-DE070	0 MOTOR	456.26	456.26	456.26
			*** ABOVE PART IS PREPAID ***			
1	1	80960-52090	0 MOTOR	389.06	291.77	291.77
			*** ABOVE PART IS PREPAID ***			
1	1	161A0-29C15	15203 1 PUMP	433.03	433.03	433.03
1	1	89040-47040	C PUMP	171.77	171.77	171.77
			*** ABOVE PART IS PREPAID ***			
1	1	89040-52010	11504 3 PUMP	171.77	171.77	171.77
			*** ABOVE PART IS PREPAID ***			
			FREIGHT 21.55			
			The following parts have been special ordered:			
1		80960-08070	MOTOR ASSY			
1		80960-52090	MOTOR ASSY			
-		89040-47040	PUMP ASSY,			
1		89040-52010	PUMP ASSY,			
***** WELCOME TO THE NEW ***** ***** OLATHE TOYOTA ***** *****				PARTS		1,524.62
CUSTOMER'S SIGNATURE X				SHIPPING		
				FREIGHT		21.55
				SALES TAX		0.00
				<b>TOTAL</b>		<b>\$1,546.27</b>

*Spoke w/ William returned for 456.26 credit*  
 685 N. Rawhide  
 Olathe, MO 66061

"3. A motor comprising:"

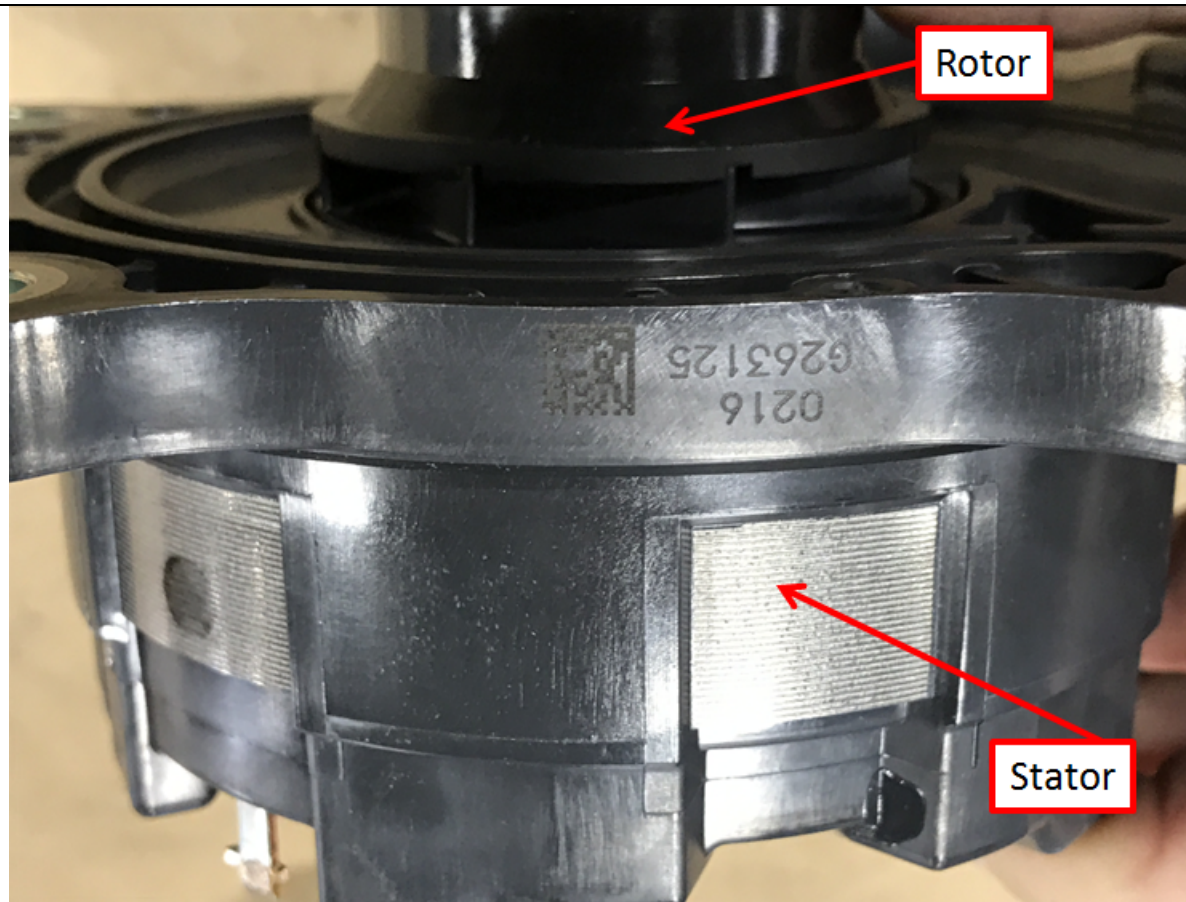
As shown in greater below with respect to the other limitations of claim 1, the Aisin Pump is an electric motor having a stator and a rotor, where the stator is designed to cause the rotor to rotate during operation.



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"3. A motor comprising:"



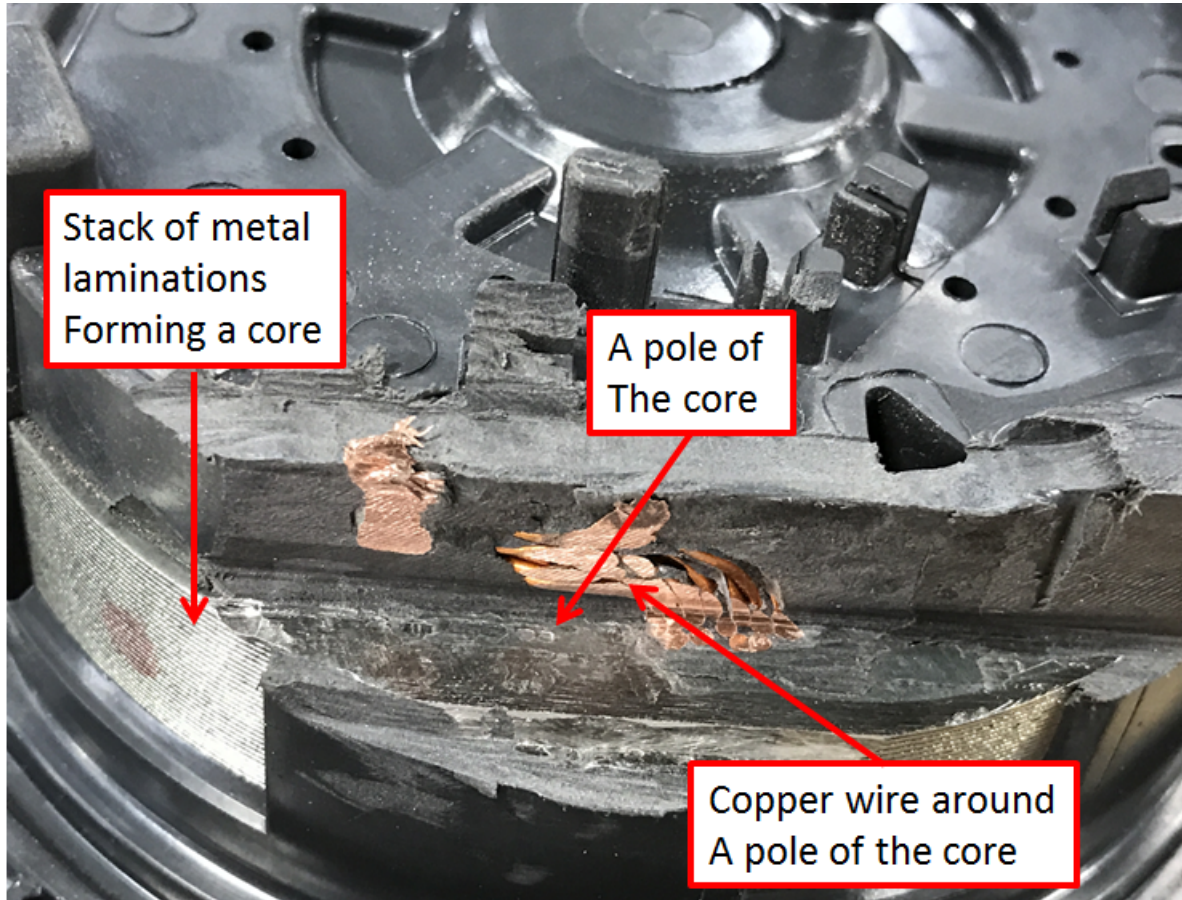
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"a) a core having poles and windings around said poles forming a pole assembly;"

a) a core having poles and windings around said poles forming a pole assembly;

The Pump comprises a core having poles and windings around said poles forming a pole assembly.

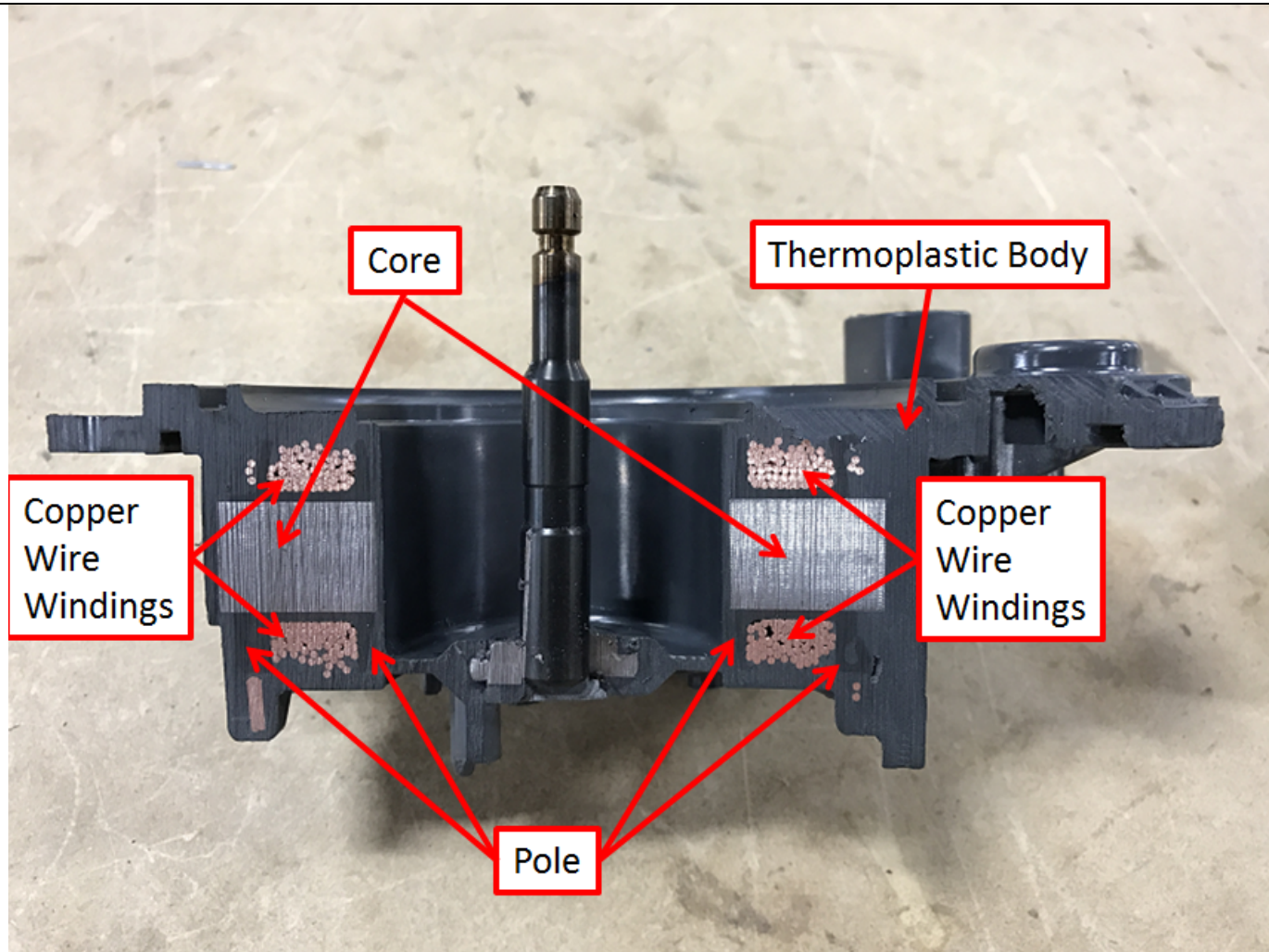
For example, as shown in the photo below, the motor of the Pump has a plurality of poles that are formed by laminations and arranged together in a circular shape to form a core. Each pole is wrapped with copper wire windings.



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"a) a core having poles and windings around said poles forming a pole assembly;"

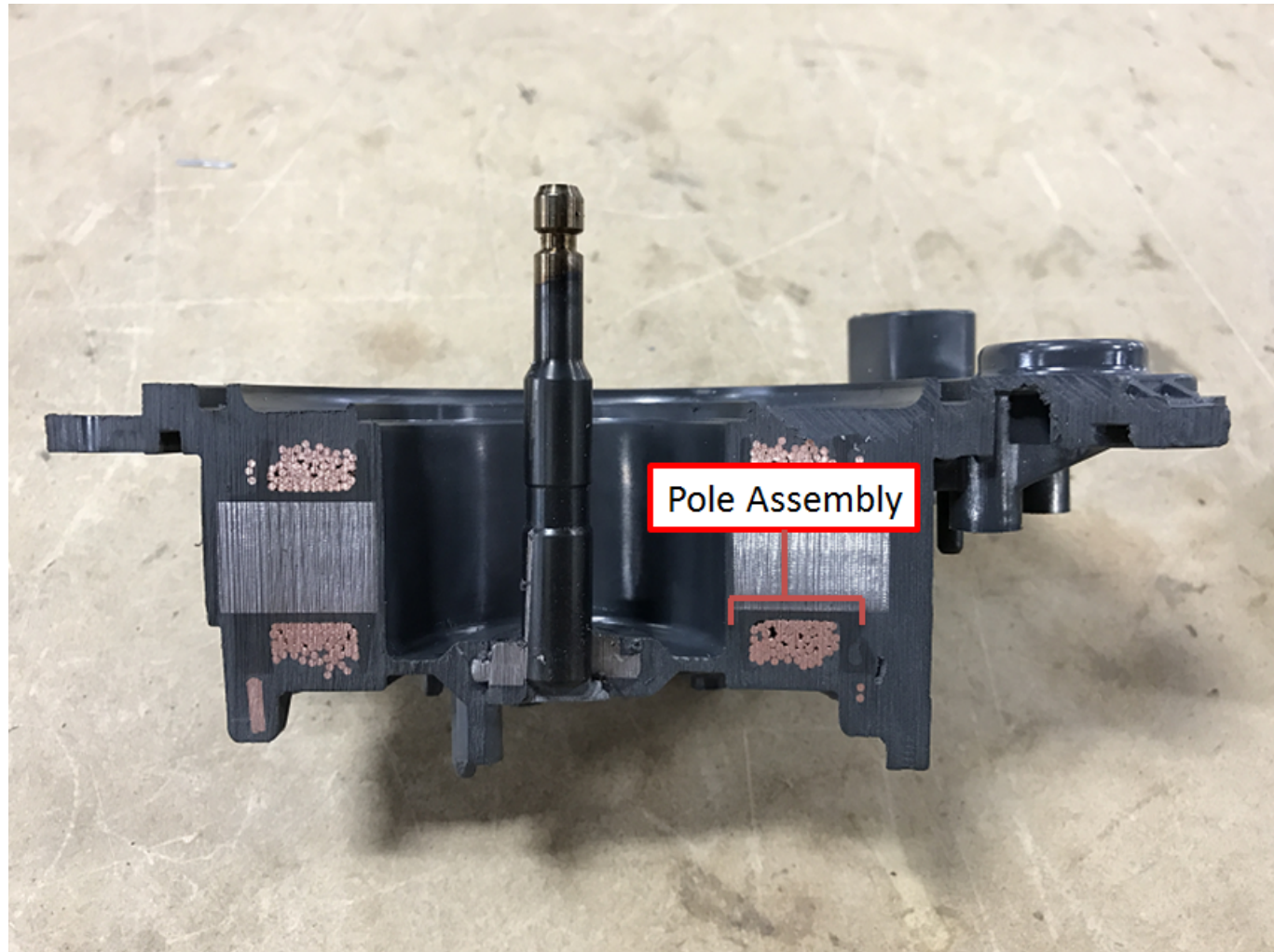


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"a) a core having poles and windings around said poles forming a pole assembly;"

For example, the Pump's poles and windings around said poles form a pole assembly:



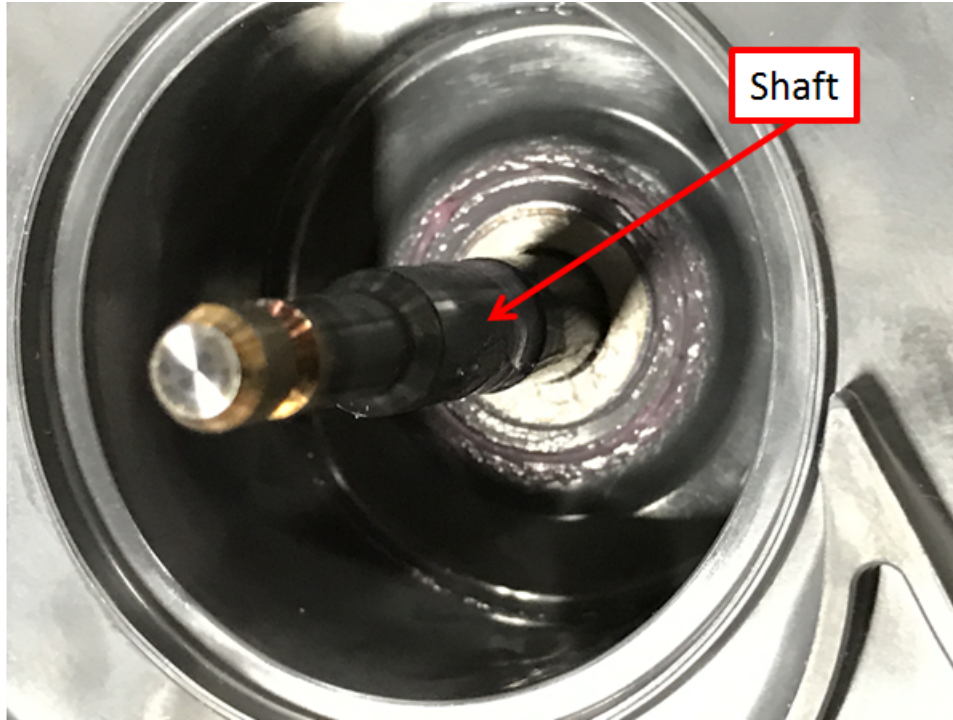
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"b) a shaft, the shaft and pole assembly not being in direct contact with one another, but rather the shaft being spaced from the pole assembly; and"

b) a shaft, the shaft and pole assembly not being in direct contact with one another, but rather the shaft being spaced from the pole assembly; and

The Pump comprises a shaft, the shaft and pole assembly not being in direct contact with one another, but rather the shaft being spaced from the pole assembly.

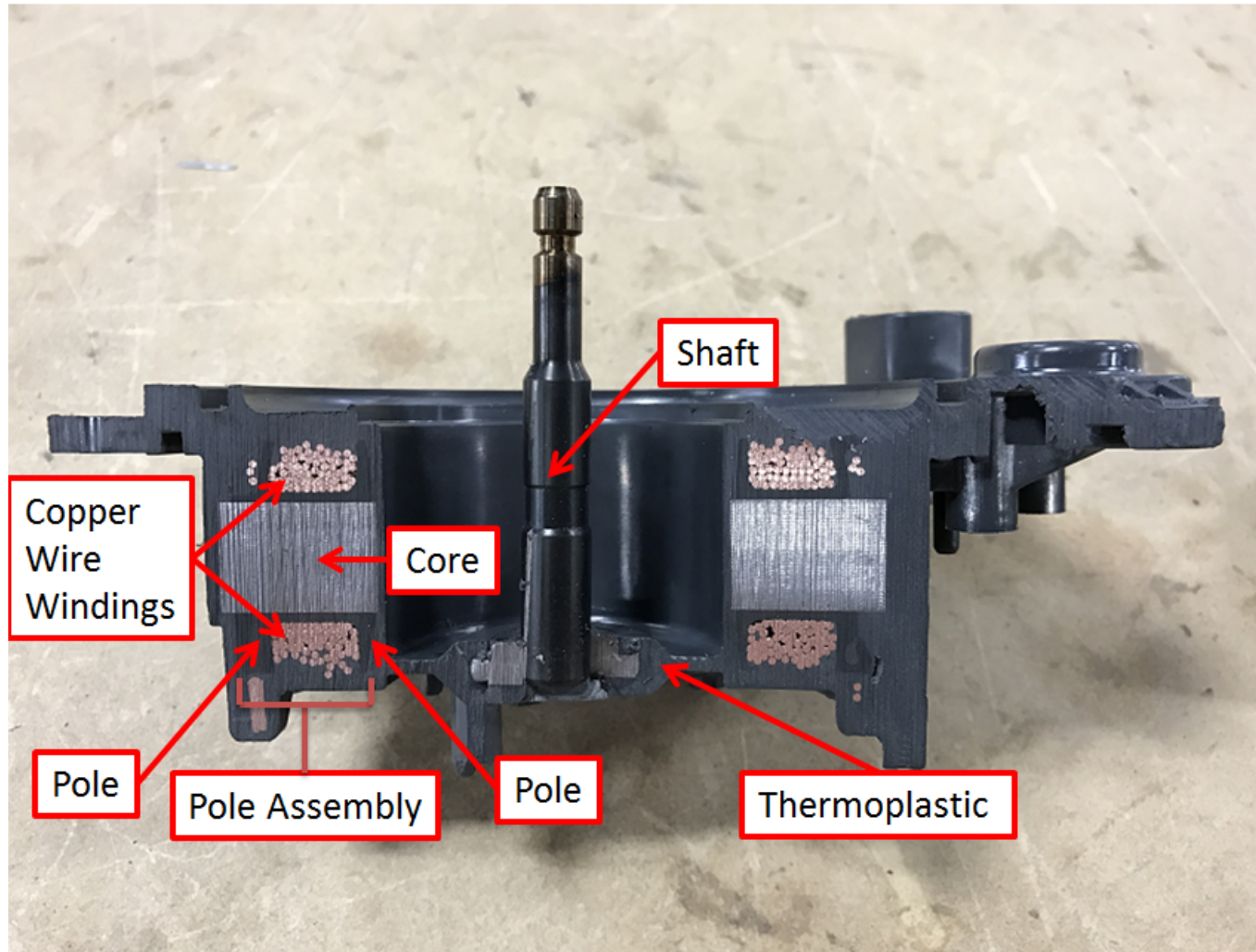
For example, as shown in the picture below, the motor of the Pump contains a shaft:



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"b) a shaft, the shaft and pole assembly not being in direct contact with one another, but rather the shaft being spaced from the pole assembly; and"

The shaft does not directly contact the core or the windings of the pole assembly. The shaft is positioned within and spaced from the pole assembly:



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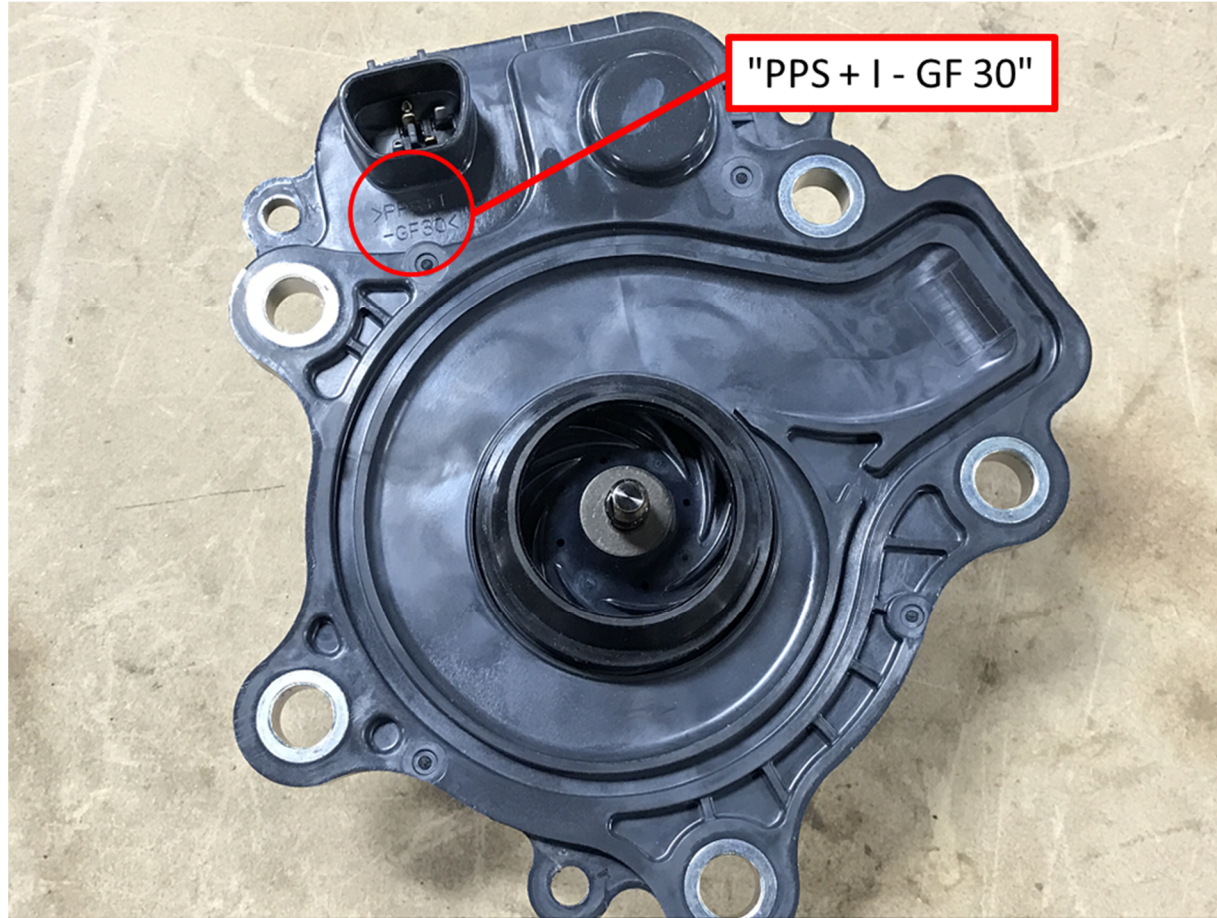


"c) a thermoplastic material secured to the shaft and substantially encapsulating the pole assembly,"

c) a thermoplastic material secured to the shaft and substantially encapsulating the pole assembly

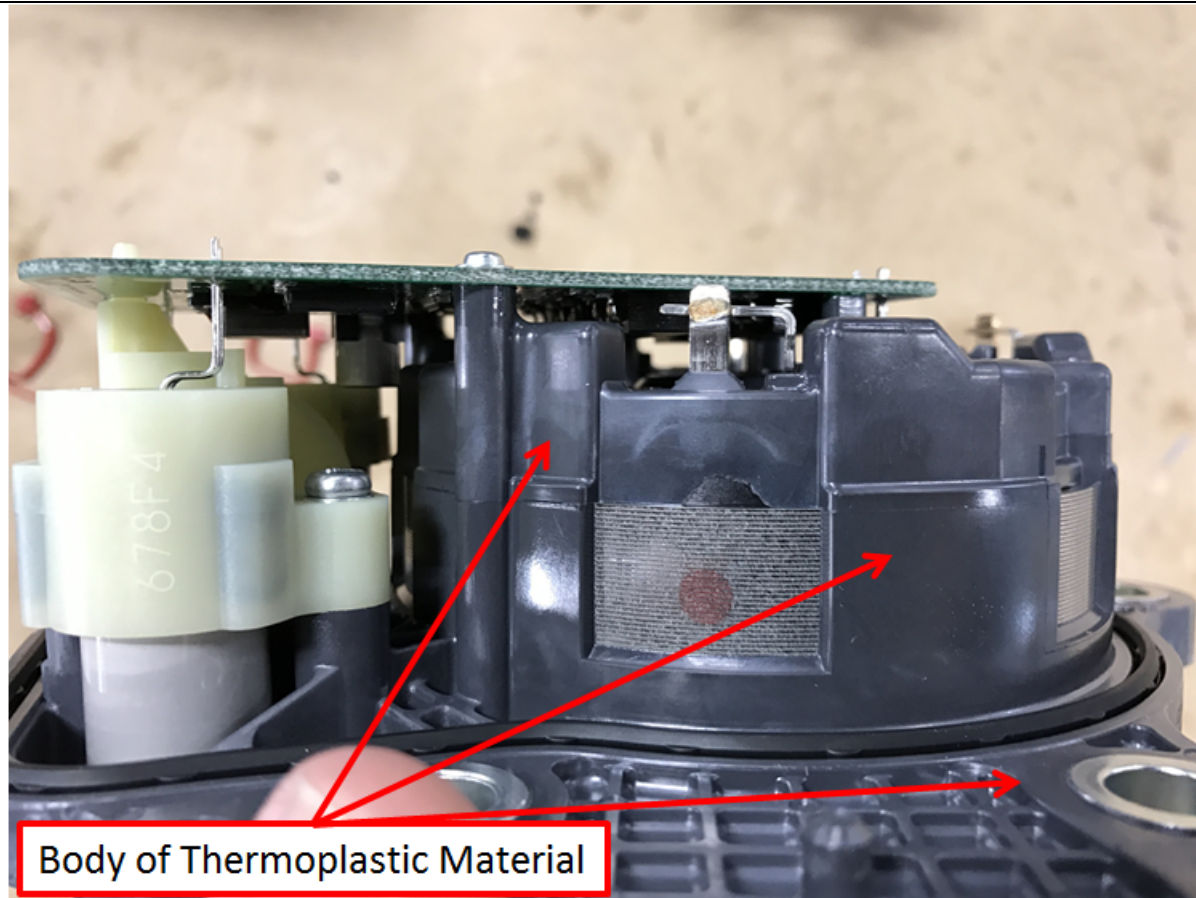
The Pump comprises a thermoplastic material secured to the shaft and substantially encapsulating the pole assembly.

For example, the motor of the Pump includes a thermoplastic body that is formed from a material identified on the Pump as "PPS + I - GF 30" as shown below:



IMG\_1711.JPG

"c) a thermoplastic material secured to the shaft and substantially encapsulating the pole assembly,"



IMG\_1705.JPG

Upon information and belief, the label "PPS + I – GF 30" refers to a blend of polyphenylene sulfide and an imide compound with 30% glass fiber filler, with a greater proportion of polyphenylene sulfide than of the imide compound as indicated by the order "PPS + I" rather than "I + PPS." Upon information and belief, imide compounds may be thermoplastic or thermoset compounds and polyphenylene sulfide is a thermoplastic compound.

The portion of the body composed of polyphenylene sulfide with 30% glass fiber filler, often identified with the label "PPS – GF 30" is a known thermoplastic. *See, e.g.*, U.S. Patent Publication 2009/0173903 (application No. 12/295,565), at ¶ 0114 ("The abbreviations of the resin names in the tables above are as follows. PPS-GF30: Polyphenylene sulfide resin containing 30 wt % of glass fibers").

"c) a thermoplastic material secured to the shaft and substantially encapsulating the pole assembly,"



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PPS **SEARCH**

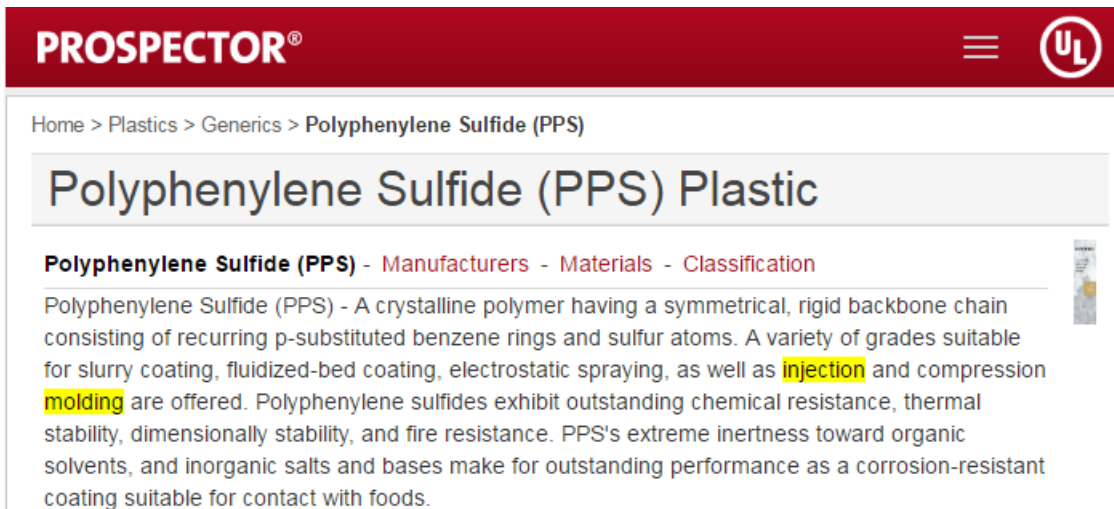
### Overview of materials for Polyphenylene Sulfide (PPS) with 30% Glass Fiber Filler

Categories: [Polymer](#); [Thermoplastic](#); [Polyphenylene Sulfide \(PPS\)](#); [Polyphenylene Sulfide \(PPS\) with 30% Glass Fiber Filler](#)

**Material Notes:** This property data is a summary of similar materials in the MatWeb database for the category "Polyphenylene Sulfide (PPS) with 30% Glass Fiber Filler". Specific grades with glass content between 25% and 34% are included. Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

<http://www.matweb.com/search/DataSheet.aspx?MatGUID=c43bc743bdc0413ead2b87aca2e38a30&ckck=1>

PPS-GF30 is used in injection molding processes to manufacture parts.



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Home > Plastics > Generics > Polyphenylene Sulfide (PPS)

## Polyphenylene Sulfide (PPS) Plastic

**Polyphenylene Sulfide (PPS) - Manufacturers - Materials - Classification**

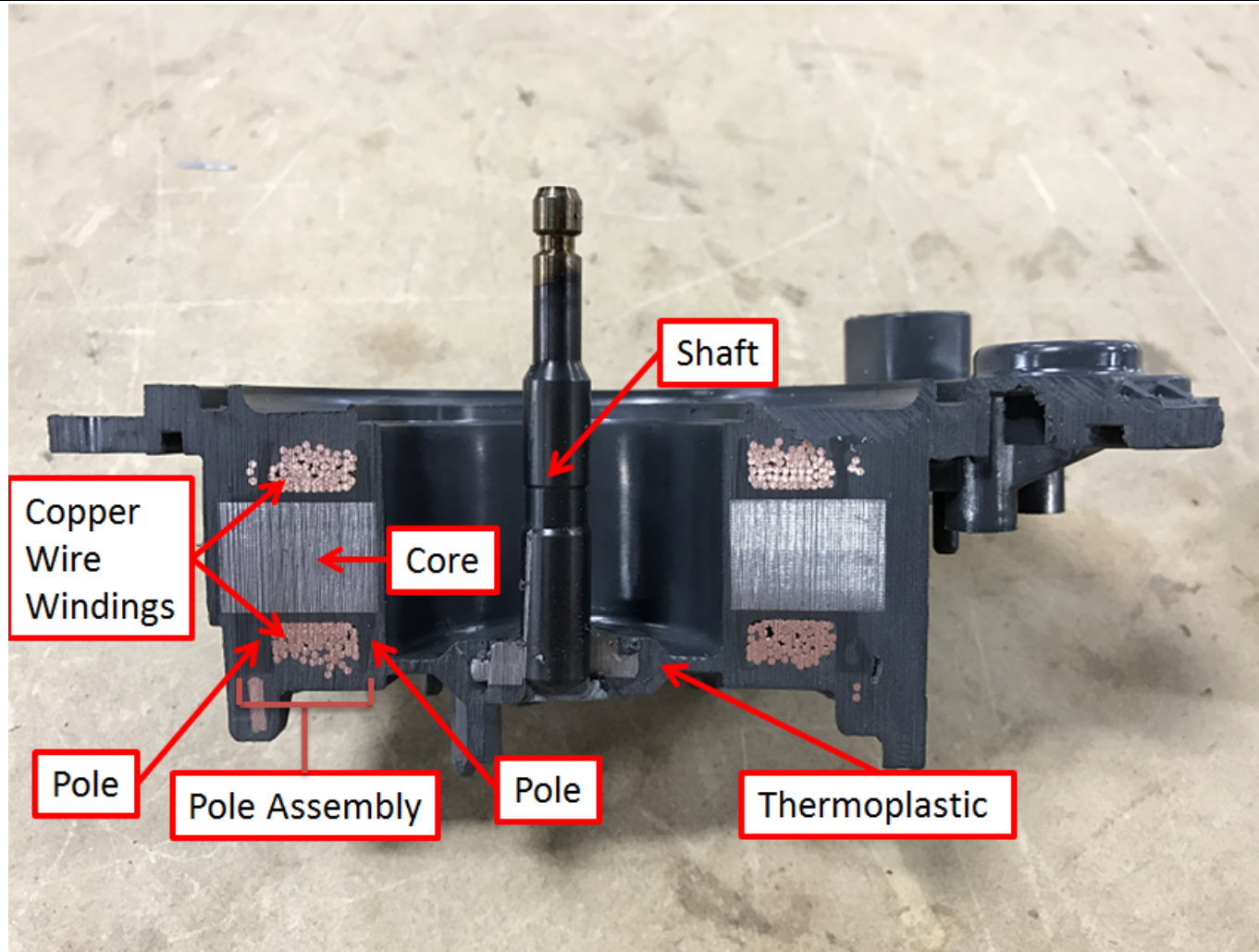
Polyphenylene Sulfide (PPS) - A crystalline polymer having a symmetrical, rigid backbone chain consisting of recurring p-substituted benzene rings and sulfur atoms. A variety of grades suitable for slurry coating, fluidized-bed coating, electrostatic spraying, as well as **injection** and compression **molding** are offered. Polyphenylene sulfides exhibit outstanding chemical resistance, thermal stability, dimensionally stability, and fire resistance. PPS's extreme inertness toward organic solvents, and inorganic salts and bases make for outstanding performance as a corrosion-resistant coating suitable for contact with foods.

<https://plastics.ulprospector.com/generics/41/polyphenylene-sulfide-pps>

The thermoplastic body contains a portion that surrounds and secures to a rigid shaft assembly comprising the shaft rigidly fixed to an annular metal insert:



"c) a thermoplastic material secured to the shaft and substantially encapsulating the pole assembly,"



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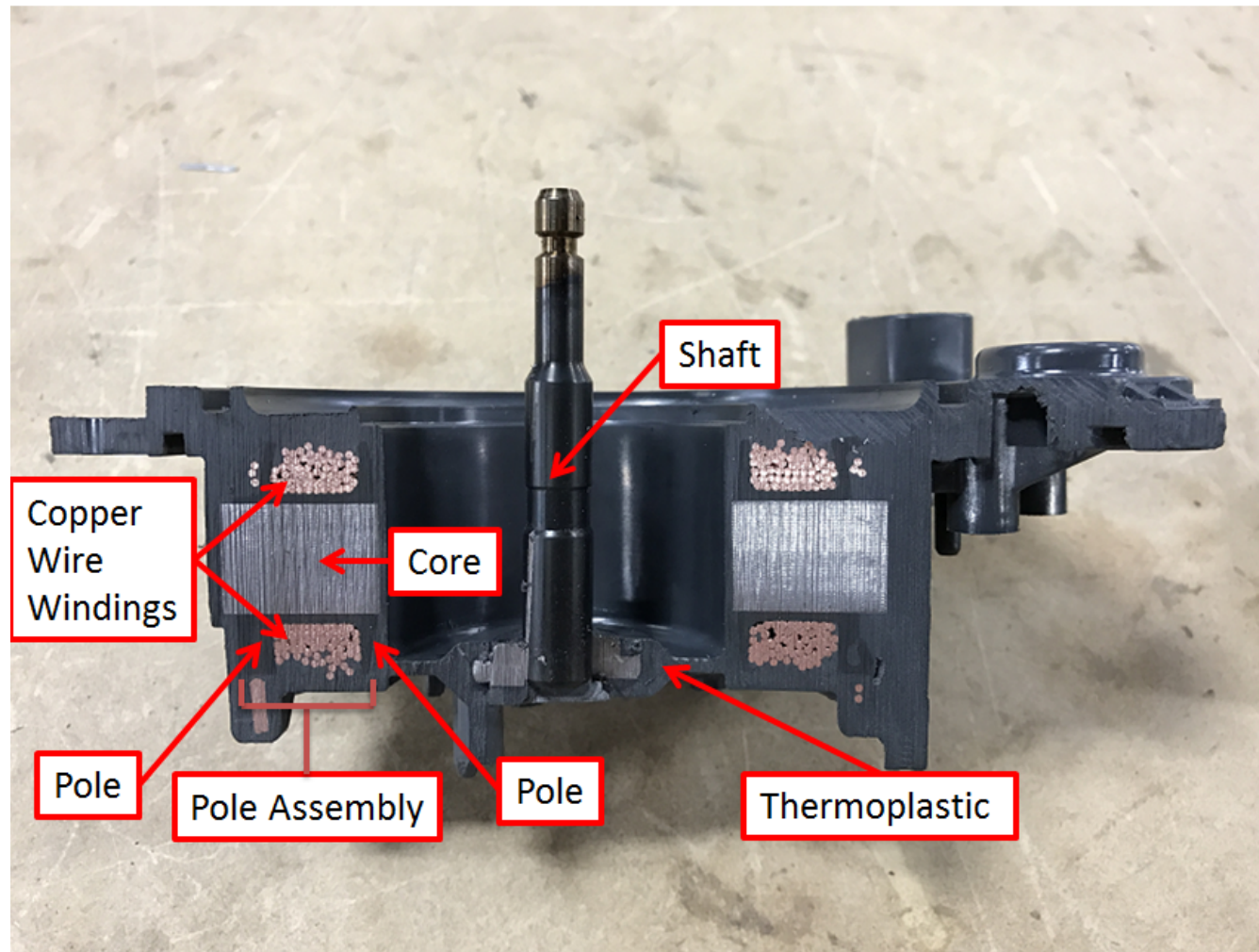


"c) the thermoplastic material joining the pole assembly to the shaft in the space between the pole assembly and the shaft, filling in the space between them such that the windings, core and shaft are rigidly fixed together."

c) the thermoplastic material joining the pole assembly to the shaft in the space between the pole assembly and the shaft, filling in the space between them such that the windings, core and shaft are rigidly fixed together.

The pump comprises thermoplastic material joining the pole assembly to the shaft in the space between the pole assembly and the shaft, filling in the space between them such that the windings, core and shaft are rigidly fixed together.

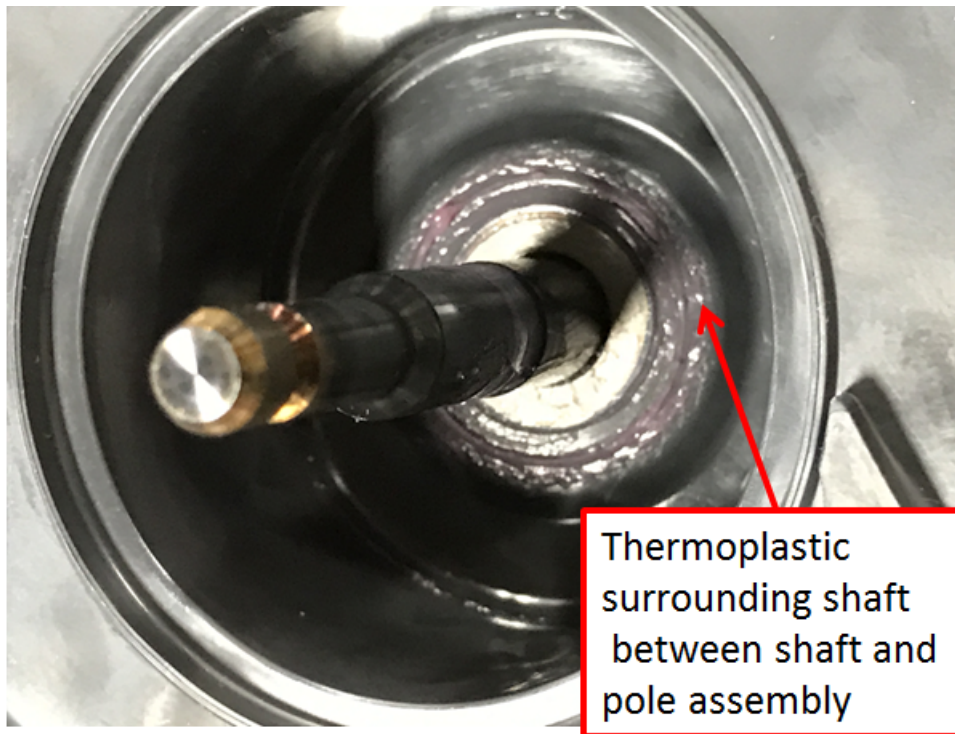
For example, thermoplastic material encapsulates and rigidly fixes the shaft into the same body of material that encapsulates the copper wire, as shown in the picture below:



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"c) the thermoplastic material joining the pole assembly to the shaft in the space between the pole assembly and the shaft, filling in the space between them such that the windings, core and shaft are rigidly fixed together."

The picture directly below shows the Pump from the reverse side, with the shaft extending outward to receive the rotor:



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The thermoplastic body substantially encapsulates the pole assembly and also contains a portion that surrounds and secures to the shaft. The pole assembly and shaft are separated by a visible distance that is filled with the thermoplastic material, as shown above. The thermoplastic material rigidly fixes the core, copper wire and shaft together.