



In the automotive industry, you need PA66 products that perform to a higher standard. Vydyne® resins and compounds help you get the most out of every part you produce. For under-the-hood applications, Vydyne products deliver superior chemical and heat resistance. For exterior and interior components, Vydyne offers versatile, reliable and customizable resins. Our quality and consistency make the difference in your production efficiency.

Product Used: R533H, R530H

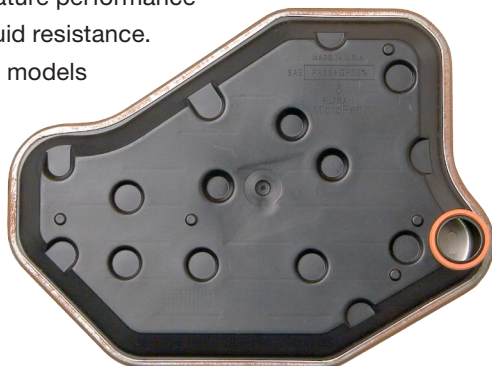
Benefits: Strength • Chemical Resistance • Superior Mold Flow • Temperature Resistance • Stiffness

Application Description

The transmission filter is currently used in all automatic transmissions in variations of the design shown. The transmission filter acts as both a pickup and a filter for the transmission fluid. These units are designed to have an extended service life of 30,000 to 100,000 miles before replacement.

The Challenge

The transmission filter must perform under high temperatures and come into contact with transmission fluid. The original designs used stamped steel that was crimped and/or welded. After further investigation, it was found that PA66 could offer the needed temperature performance and transmission fluid resistance. Years of production models have proven that the concept is successful.



The Vydyne Difference

Ascend's Vydyne R533H and R530H are ideal for this application because of their superior temperature and chemical resistance. The high flow of the product allows the complex oil passages to be molded with ease. This part also provides a significant weight reduction over the stamped steel design.

The Ascend Automotive team utilizes mold flow analysis and years of automotive experience to create optimal parts for Ford®, General Motors®, Chrysler® and Toyota®.

For more information, see your Ascend representative or visit www.ascendmaterials.com.

R533H, R530H

Property*	Method	Units	R533H	R530H
Specific Gravity	ISO 1183	none	1.4	1.37
Tensile Strength	ISO 527	MPa	204	195
Flexural Modulus	ISO 178	MPa	9,700	9,100
Notched Izod	ISO 180	kJ/m ²	12	11
DTUL @ 1.8 MPa	ISO 75	°C	250	245

*Dry as molded (DAM)