



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.

Products Used: R533H, R530H

Benefits: Superior Strength • Stiffness • Chemical Resistance
• Inherent Toughness • Temperature Resistance

Application Description

Pictured below is the oil fill tube used on several North American-made vehicles containing 3.3L and 3.8L V-6 engines.

The Challenge

The oil fill tube must have excellent chemical resistance, temperature resistance, strength, stiffness and toughness. It is attached to the engine and experiences high temperatures during vehicle operation. The oil fill tube must also be able to withstand the torque applied during oil cap removal and reattachment.



The Vydyne Difference

Ascend's Vydyne R533H is ideal for this application because of its superior strength and stiffness. Resistance to engine oil is a key requirement of this application that Vydyne PA66 offers. Vydyne R533H meets all material and end-use requirements and has years of proven performance in production vehicles. The Ascend automotive team employed years of engine component experience to create optimal parts for Ford®, General Motors® and Chrysler®.

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)