



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: R530H, R535H

Benefits: Stiffness • Surface Appearance • Dimensional Stability • Temperature Resistance • Chemical Resistance

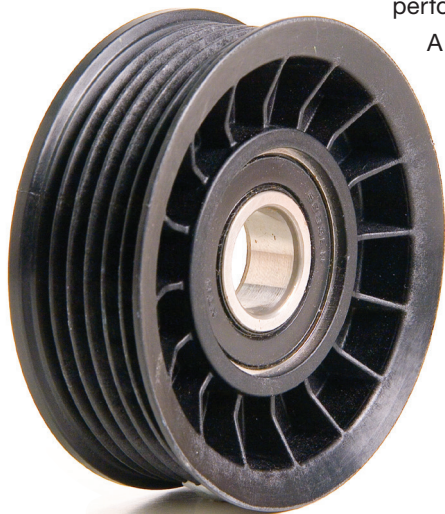
Application Description

The idler pulley shown is for use with a serpentine belt drive system. This part is manufactured by a leading North American automotive molder.

The Challenge

The idler pulley is a critical component in the accessory belt drive system. The stiffness, dimensional stability and temperature resistance are critical in maintaining optimum performance of the system.

A smooth surface is needed to minimize the wear on the drive belt. Also, the chemical resistance of the PA66 eliminates problems with typical automotive chemicals.



The Vydyne Difference

Ascend's Vydyne R530H is ideal for this application because of its superior stiffness and temperature resistance. The smooth surface provides for optimum belt life and performance. Vydyne PA66 resins can be more cost effective than competing resin systems. The Ascend automotive team used mold flow analysis and years of cooling fan experience to create optimal parts for Ford®, General Motors® and Chrysler®.

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

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

*Dry as molded (DAM)