ASCEND PERFORMANCE MATERIALS

application profile:

power-steering reservoir

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: R533T (Translucent), R533H (Black)

Benefits: Chemical Resistance • Temperature Resistance • Strength • Design Flexibility • Easily Moldable

Application Description

Pictured below is a translucent power-steering reservoir used in a major, North American–built pickup. This reservoir and many other configurations are manufactured by a leading thermoplastic-components provider.

The Challenge

Automotive reservoirs must have excellent resistance to under-the-hood chemicals and intense heat. The combination of heat and chemicals can cause an undesirable color shift or rapid degradation of many plastics.

The Vydyne Difference

Ascend's Vydyne R533T stands up to the combination of heat and chemicals to prevent degradation or color shifts. Using this product to create a translucent reservoir also allows consumers to check fluid levels without a dipstick. Eliminating the need for a dipstick makes production more economical and increases convenience.

Vydyne R533H was used to create the reservoir cap and cover. This product's heat and chemical resistance also make it an excellent choice for black reservoirs. Vydyne products are used in many other reservoir designs for Ford,® General Motors® and Chrysler® vehicles.

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

R533T, R533H				
Property*	Method	Units	R533H	R533T
Density	ISO 1183	g/cm^3	1.4	1.4
Tensile Stress	ISO 527-2	MPa	205	210
Flexural Modulus	ISO 178	MPa	10,200	9,500
Notched Izod	ISO 180	kJ/m^2	12	12
DTUL @ 1.8 MPa	ISO 75-2/A	°C	250	235

*Dry as molded (DAM)