ASCEND PERFORMANCE MATERIALS

application profile:

radiator end tank

vydyne pa 66®

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: R525H

Benefits: Temperature Resistance • Dimensional Stability • Hydrolysis Resistance • Superior Strength • Stiffness

Application Description

Pictured below is a radiator end tank (RET) that is used in several North American sport utility vehicles (SUVs). This RET and many other configurations are assembled into a complete radiator unit by a major global supplier of thermal systems.

The Challenge

To perform their function, RETs must have excellent heat and hydrolysis resistance as well as strong dimensional stability. Part degradation from demanding conditions can lead to vehicle immobility and engine damage. The Ascend Automotive team works to ensure flawless performance of this critical cooling-system component.

The Vydyne Difference

Ascend's Vydyne R525H ensures that this piece creates a perfect seal with the radiator core to maintain integrity throughout the life of the vehicle. Vydyne R525H is backed by years of use in vehicles from companies such as General Motors,® Ford® and Chrysler.® This resin meets all material and end-use requirements and is used for many other thermal-system applications as well.

The Ascend Automotive team relies on years of experience to create original parts for Ford, General Motors and Chrysler.

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

R525H			
Property	Method	Units	DAM
Density	ISO 1183	g/cm^3	1.32
Tensile Stress	ISO 527-2	MPa	174
Flexural Modulus	ISO 178	MPa	7,700
Notched Izod	ISO 180	kJ/m^2	10
DTUL @ 1.8 MPa	ISO 75-2/A	°C	245