

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:** R228 (Black)

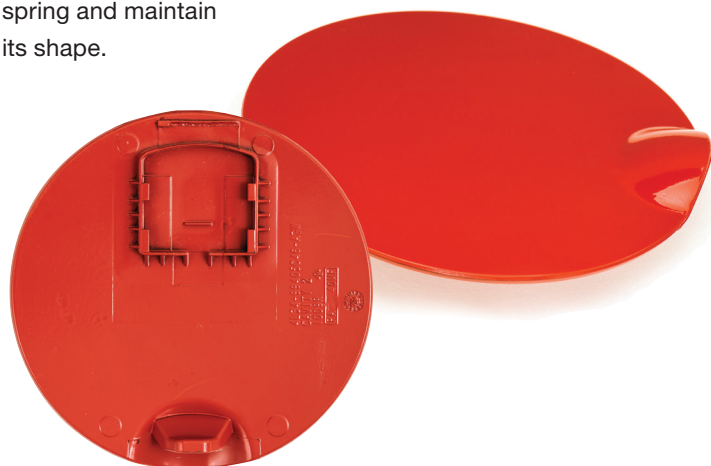
**Benefits:** Temperature Resistance • Warp Resistance • Superior Flow • Improved Surface Appearance • Stiffness

### Application Description

Pictured below is the fuel filler door for a major North American-made truck. This is part of the whole fuel filler assembly.

### The Challenge

The fuel filler door demands a unique balance of properties. The key requirement is that it must have a good appearance with no warpage. Since it is treated through a high temperature paint baking process, it demands the ability to handle high temperatures. Because this is a functional part, it requires stiffness to overcome the closure spring and maintain its shape.



### The Vydyne Difference

Ascend's Vydyne R228 is ideal for this application because of its superior balance of properties. These properties allow for a part to be designed to meet the demanding painting and bake environment and still have an outstanding appearance. The Ascend automotive team employed years of automotive experience to create optimal parts for Ford®, General Motors® and Chrysler®.

**For more information, see your Ascend representative or visit [www.ascendmaterials.com](http://www.ascendmaterials.com).**

R228			
Property	Method	Units	DAM
Specific Gravity	ISO 1183	N/A	1.48
Tensile Strength	ISO 527	MPa	103
Flexural Modulus	ISO 178	MPa	6,100
Notched Izod	ISO 180	kJ/m <sup>2</sup>	9
DTUL @ 1.8 MPa	ISO 75	°C	118