



In the automotive industry, you need PA66 products that perform to a higher standard. Vydine® resins and compounds help you get the most out of every part you produce. For under-the-hood applications, Vydine products deliver superior chemical and heat resistance. For exterior and interior components, Vydine offers versatile, reliable and customizable resins. Our quality and consistency make the difference in your production efficiency.

**Products Used:** R860, R543H

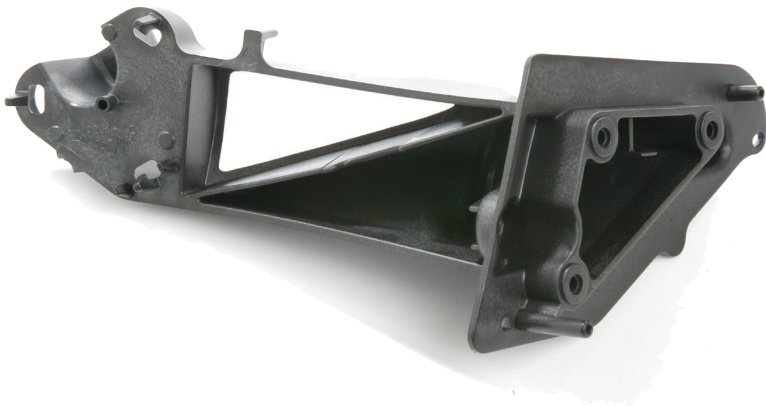
**Benefits:** Static Load Bearing Capabilities • Vibration Minimization • Superior Mold Flow • Adhesion to Metal

**Application Description**

Pictured below is the right-hand mirror bracket for a major North American-made vehicle. This structural part of the bracket is made with R860. A painted cover is added for the final assembly.

**The Challenge**

The mirror bracket is a critical component of the mirror assembly. For superior part performance, the bracket must minimize vibration and withstand a demanding assembly process. In certain applications, adhesion to metal is essential as well.



**The Vydine Difference**

Ascend's Vydine R860 is ideal for this application because of its optimal balance of strength, stiffness, damping characteristics and adhesion to metal. Alternately, Vydine R543H brings to the application superior strength and stiffness. And Vydine PA66 resins are more cost effective than polyester, zinc and magnesium options. The Ascend automotive team used mold flow analysis and years of mirror bracket experience to create optimal parts for Ford®, General Motors®, Chrysler® and Toyota®.

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

**R860, R543H**

Property*	Method	Units	R530H	R533H
Density	ISO 1183	g/cm <sup>3</sup>	1.45	1.5
Tensile Stress	ISO 527-2	MPa	119	235
Flexural Modulus	ISO 178	MPa	6,900	12,400
Notched Izod	ISO 180	kJ/m <sup>2</sup>	4	14.4
DTUL @ 1.8 MPa	ISO 75-2/A	°C	225	250

\*Dry as molded (DAM)