



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: R220 Natural

Benefits: Temperature Resistance • Warp Resistance • Superior Mold Flow • Surface Appearance • Stiffness

Application Description

Pictured below is a wheel cover that is used by a major North American OEM. Vydyne has a long history in wheel cover applications around the world.

The Challenge

The wheel cover demands a unique balance of properties. A key requirement is that it must present a pleasing appearance, with no warping. The paint-baking process requires an ability to handle high temperatures. To keep its functionality, the part must maintain stiffness to resist the clamping spring and yet hold its shape. In use, the wheel cover must deflect minor impacts.



The Vydyne Difference

Ascend's Vydyne R220 is ideal for this application because of its superior balance of properties. These properties guarantee a part that meets the demanding painting and bake environment while maintaining an outstanding appearance. The Ascend automotive team supported the development of wheel covers by employing years of automotive experience to create optimal parts for most major automakers.

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

R220 Natural			
Property	Method	Units	DAM
Density	ISO 1183	g/cm ³	1.48
Tensile Stress	ISO 527-2	MPa	103
Flexural Modulus	ISO 178	MPa	6,100
Notched Izod	ISO 180	kJ/m ²	9
DTUL @ 1.8 MPa	ISO 75-2/A	°C	118