

application profile: door panel support



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: 21SPC, 21SPF

Benefits: Lubricity • Wear Resistance • Superior Strength

• Easy to Mold • Stiffness

Application Description

Pictured below are the door panel supports for several North American automobiles. The door panel assembly is manufactured by a leading global tier one company.

The Challenge

The door panel support is a critical component in the door panel assembly. This part provides the attachment point for the door panel to the door, so the material needs to have high strength and stiffness. It also must have a complex shape so the door panel foam has a good location to grab on to, calling for a material that molds well. The lubricity is needed to minimize the squeaking of the door panel to improve overall NVH.







The Vydyne Difference

Ascend's Vydyne 21SPF is ideal for this application because of its balance of strength and stiffness with a good wear and lubricity. The ease of molding allows many design features to be added to the part to improve its functionality. The Ascend automotive team employed years of experience to create optimal parts for Nissan,[®] Ford,[®] General Motors[®] and Chrysler.[®]

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

21SPC, 21SPF				
Property*	Method	Units	21SPC	21SPF
Density	ISO 1183	g/cm ³	1.14	1.14
Tensile Stress	ISO 527-2	MPa	81	85
Flexural Modulus	ISO 178	MPa	2,900	3,000
Notched Izod	ISO 180	kJ/m²	6.0	5.5
DTUL @ 1.8 MPa	ISO 75-2/A	°C	72	74

*Dry as molded (DAM)





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