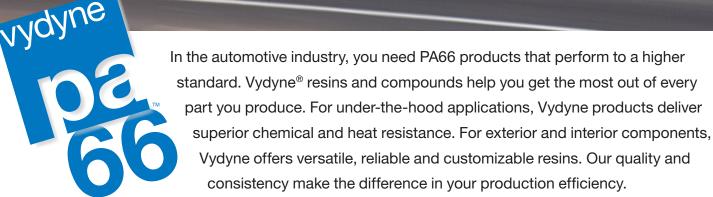
# application profile

# oil fill tube



**Product Used:** R533H, R530H **Benefits:** Superior Strength • Stiffness • Chemical Resistance • Inherent Toughness • Temperature Resistance

## **Application Description**

Pictured below is the oil fill tube used on several major, North American vehicles containing 4.6-L and 5.4-L V-8 engines. The oil fill tube is manufactured by a leading thermoplastic components provider.

### **The Challenge**

The oil fill tube must have excellent chemical resistance, temperature resistance, strength, stiffness and toughness. It is attached to the engine and experiences high temperatures during vehicle operation. The oil fill tube must also be able to withstand the torque applied during oil cap removal and

reattachment.

#### **The Vydyne Difference**

Ascend's Vydyne R533H is ideal for this application due to its superior strength and stiffness. Resistance to engine oil is a key requirement that Vydyne PA66<sup>™</sup> offers. Vydyne R533H and R530H meet all material and end-use requirements and have years of proven performance in production vehicles.

The Ascend Automotive team utilizes years of engine component experience to create optimal parts for Ford,<sup>®</sup> General Motors<sup>®</sup> and Chrysler.<sup>®</sup>

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

R533H, R530H				
Property*	Method	Units	R533H	R530H
Specific Gravity	ISO 1183	none	1.4	1.37
Tensile Strength	ISO 527	MPa	204	195
Flexural Modulus	ISO 178	MPa	9,700	9,100
Notched Izod	ISO 180	kJ/m <sup>2</sup>	12	11
DTUL @ 1.8 MPa	ISO 75	°C	250	245

\*Dry as molded (DAM)