



In the automotive industry you need PA66 products that perform to a higher standard to address the evolving demands. Vydyne® resin and compounds help you to get most out of every part you produce. For automotive cooling applications Vydyne® products delivers superior chemical and heat resistance.

Today's material portfolio of Ascend for automotive cooling offers suitable properties to perform well in many applications. Vydyne® R530H BK0201 is specifically used in many serial applications for Radiator End Tanks in the European Automotive industry. For Charge Air Cooler Tanks Ascend offers Vydyne® R535H BK02 which is used in e.g. Charge Air Cooler outlets today

Ascends new PA66 GF30 Vydyne® R530HR target to meet the increasing hydrolysis resistance requirement.

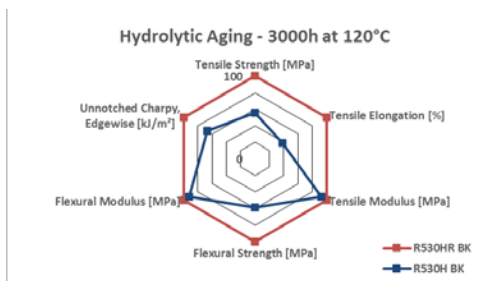


Figure 1: Comparison of property retention after aging

Property	Unit	Vydyne R525H	Vydyne R530H	Vydyne R530HR	Vydyne R533H	Vydyne R533H CaCl ₂ resistance
Glass Fiber Content	%	25	30	30	33	33
Tensile Stress	MPa	174	195	185	205	190
Tensile Modulus	MPa	8600	10000	9650	10600	10700
Notched Charpy Impact, 23°C	kJ/m ²	11	10	11	11	11
Unnotched Charpy, 23°C	kJ/m ²	65	75	95	80	73



Figure 2: Vydyne® material portfolio for cooling applications

The new Vydyne® R530HR can meet up to 3000h @120°C aging requirement and complete the Ascend material portfolio for Radiator End Tanks.

Vydyne R535HT to address the evolving temperature requirements for Charge air cooler tanks.

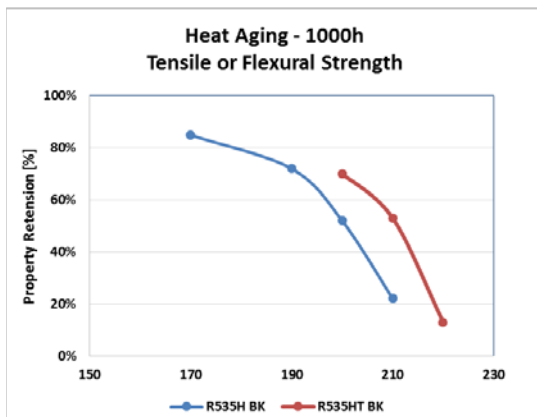


Figure 2: Vydyne® material portfolio for cooling applications

Vydyne® R535HT BK653 (GF35) can improve the temperature performance of about 10°C and will extend the material portfolio together with the new launch of the GF50 version and the existing Vydyne® R530HT BK02 (GF30).



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