



PRODUCT PROFILE

Vydyne[®] High Modulus Ductile PA66 Compounds

Good balance of strength, stiffness, toughness and NVH performance for the most demanding applications

Ascend's Vydyne R433H and Vydyne R435H are fiberglassreinforced PA66 compounds designed for automotive and non-automotive applications that require a high level of toughness with the lowest compromise of mechanical properties.

These products have excellent low-temperature impact strength and energy absorption making them ideal for use in crash relevant applications. Vydyne R433H has excellent NVH characteristics to dampen structural borne noise and vibrations providing a quieter and smoother ride performance.



Applications

Vydyne R433H and R435H are ideal for:

- · Crash inserts
- Anti-vibration components
- Oil pans
- Transmission covers
- E-bike wheels
- Battery cages
- All-terrain vehicle and snowmobile components
- Industrial equipment housings
- Sporting goods



For more information, contact our expert applications specialists or visit **ascendmaterials.com**.

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Product Properties

R433H BK0746, R435H BK0757				
Property*	Test Method	Units	R433H BK0746	R435H BK0757
Specific gravity	ISO 1183		1.33	1.39
Tensile Modulus	ISO 178	MPa	9,300	11,300
Tensile Strength	ISO 527-2	MPa	147	173
Tensile Strain at Break	ISO 527-2	%	3.2	2.9
Charpy Notched Impact Strength				
@ 23°C	ISO 179	kJ/m²	23	18
@ -30°C			15	NA
@ -40°C			NA	14
Charpy Unnotched Impact Strength				
@ 23°C	ISO 179	kJ/m²	87	93
@ -30°C			94	NA
@ -40°C			98	98
Heat Deflection Temperature				
@ 1.8 MPa	ISO 75-2/A	°C	245	248
@ 0.45 MPa	ISO 75-2/B	°C	260	260
Suggested injection-molding temperature		°C	285–305	285–305
Suggested mold temperature		°C	65–95	65–95

*Dry as molded (DAM)



Ascend Performance Materials is the world's largest fully integrated producer of nylon 6,6 resin. We manufacture and reliably supply world-class plastics, fibers and chemicals that are used in thousands of everyday applications such as car parts, electronics and cable ties.

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