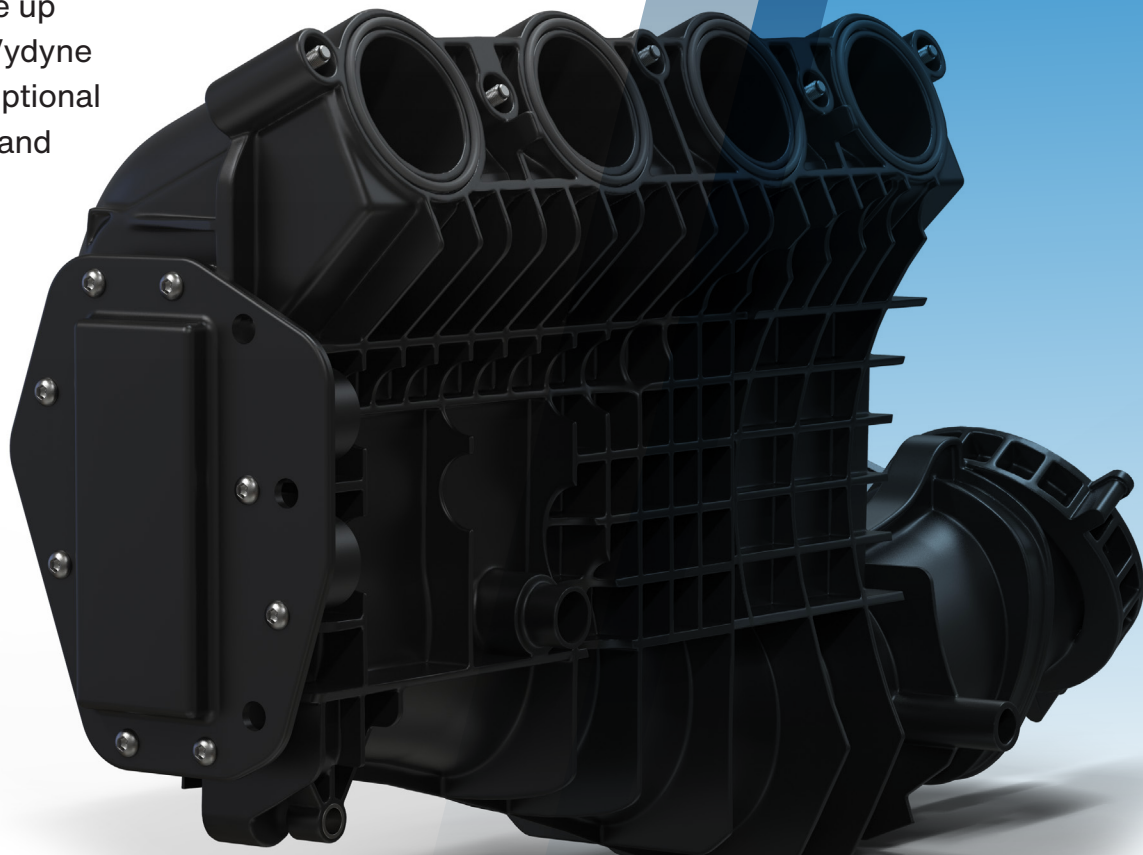

PRODUCT PROFILE

Vydyne[®] XHT

Extreme high-temperature
PA66 compounds

Ascend's Vydyne[®] XHT is the clear choice for high temperature endurance. Vydyne XHT combines unique polymer chemistries with proprietary heat stabilization technology to provide a broad window of long-term high temperature performance up to 230C. Because it's a Vydyne product, XHT offers exceptional processability, durability and mechanical properties.



Vydyne® XHT Series

Product features:

- Broad operating window: 180C to 230C
- Excellent flow for processing
- High temperature chemical resistance
- Excellent fatigue endurance
- Regrindable and recyclable

Benefits:

- Reliable extreme heat-aging performance
- Excellent surface appearance
- High weld strength for intricate and integrated parts
- Critical dimensional stability for fluid-handling parts

Applications:

- Charge air cooler end caps
- Charge air ducts
- Integrated air intake manifold
- Resonator
- Exhaust gas recirculator



Vydyne R535XHT

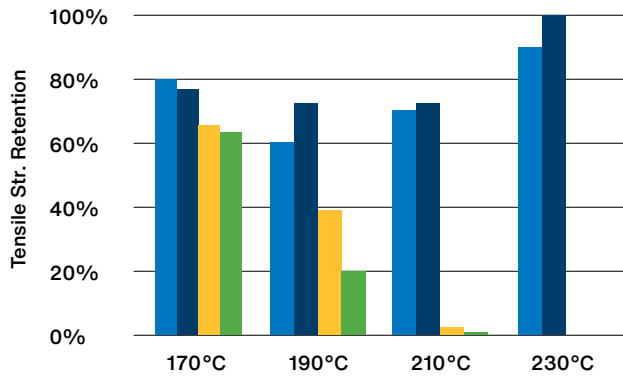
- Glass fiber reinforced PA66
- Proprietary multistage heat-stabilizing technology
- Over 70% property retention after 3,000 hours of heat aging at 210C
- Higher knit line strength

Vydyne R735XHT

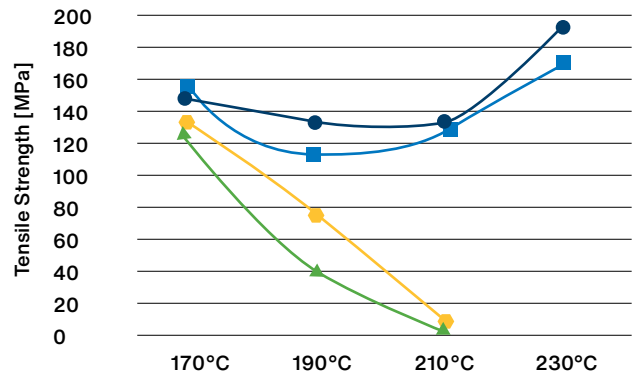
- Glass fiber reinforced PA66 copolymer
- Proprietary multistage heat-stabilizing technology
- Over 100% property retention after 3,000 hours of heat aging at 230C
- High temperature chemical resistance, including exhaust gas (EGR)
- Higher ductility at elevated temperatures
- Higher knit line strength



Property retention after heat aging (3000 hours)



Tensile strength after heat aging (3000 hours)



■ R535XHT BK0761 ■ Heat-stabilized 35% GF PA66 A
■ R735XHT BK0762 ■ Heat-stabilized 35% GF PA66 B

Product Characteristic	Test Method	Units	R535XHT	R735XHT
Density	ISO 1183	g/cm ³	1.44	1.42
Tensile Strength	ISO 527-2	MPa	199	192
Tensile Elongation	ISO 527-2	%	3.0	3.1
Tensile Modulus	ISO 527-2	MPa	12100	11100
Flexural Strength	ISO 178	MPa	294	277
Flexural Modulus	ISO 178	MPa	11000	10200
Notched Charpy (23C)	ISO 179	kJ/m ²	14	13
Notched Charpy (-30C)	ISO 179	kJ/m ²	11	12
Unnotched Charpy (23C)	ISO 179	kJ/m ²	87	80
Unnotched Charpy (-30C)	ISO 179	kJ/m ²	99	88
Melting Temperature	ISO 11357-3	°C	261	271
DTUL (1.8 Mpa)	ISO 75-2/A	°C	232	225
DTUL (0.45 MPa)	ISO 75-2/B	°C	254	254

About Ascend

Ascend Performance Materials is the largest fully integrated producer of polyamide 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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