Comparison Between ASCEND R530H & MAPEX AN620

Property	Ascend Vydyne R530H BK0202	MAPEX AN4620SB-01
Base Polymer	PA66	PA66
Glass Fiber Content	30%	30%
Color	Black	Black
Density (g/cm³)	1.37	1.35–1.38
Processing Method	Injection molding	Injection molding
Molding Shrinkage (Flow, mm)	0.4	0.20–0.40
Water Absorption (23°C, 24h, %)	0.9	—
Tensile Strength (MPa)	135–195	145
Tensile Elongation/Strain (%)	3–5	2.0
Flexural Modulus (MPa)	6000–9600	8500
Flexural Strength (MPa)	190–270	215
Impact Strength (Notched, kJ/m²)	10–13 (Charpy, 23°C)	7.0 (Notched, 23°C)
Melting Temperature (°C)	260	260
Heat Deflection Temp (°C)	250–260 @ 1.80 MPa	230 @ 1.80 MPa
Electrical Resistivity	1E11 Ohm·m (volume)	—
Flammability (UL94)	HB	HB (at 0.40 mm)
Glow Wire Ignition Temp (°C)	700	—
Processing Temp (°C)	285–305	280–300
Mold Temp (°C)	65–95	80–120
Notable Features	Hydrolysis, chemical, solvent resistance	Hydrolysis resistance, RoHS compliant
Applications	Automotive	Radiator end tank, heater core
Certification	ASTM, UL	RoHS

Summary -

Both materials are glass-fiber reinforced PA66, suitable for injection molding, and offer similar mechanical and thermal properties typical for automotive and technical parts. Differences are largely minor and application-specific.

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