

ECONAMID[®] AIR

CARBON FIBER REINFORCED SUSTAINABLE COMPOUNDS 100% REPROCESSED MATERIAL
LIGHTWEIGHT, STRENGTH AND SUSTAINABILITY



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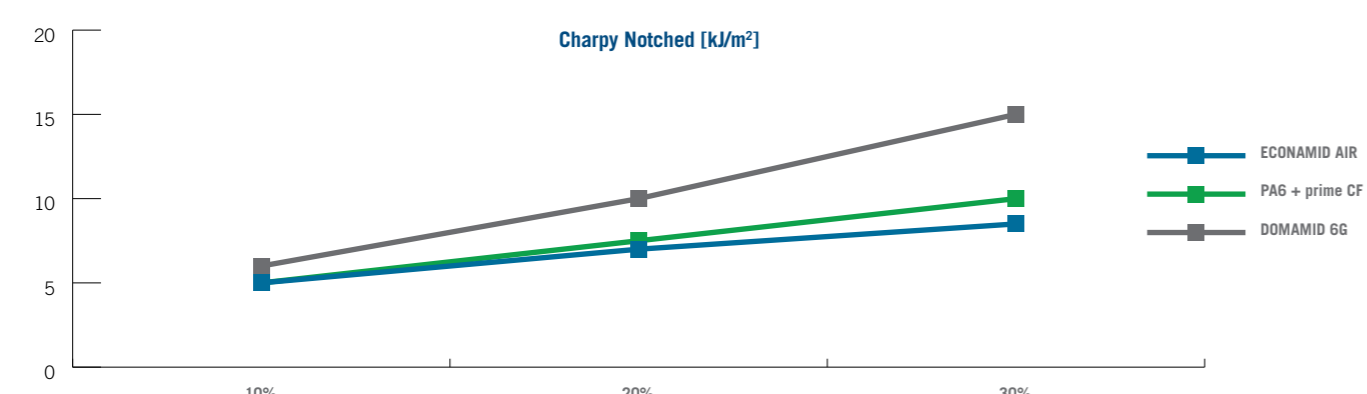
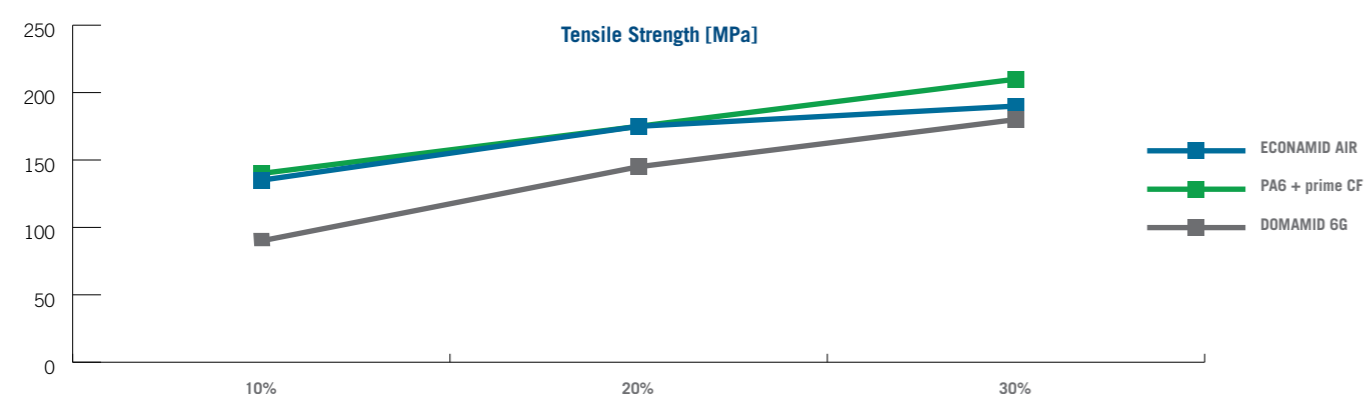
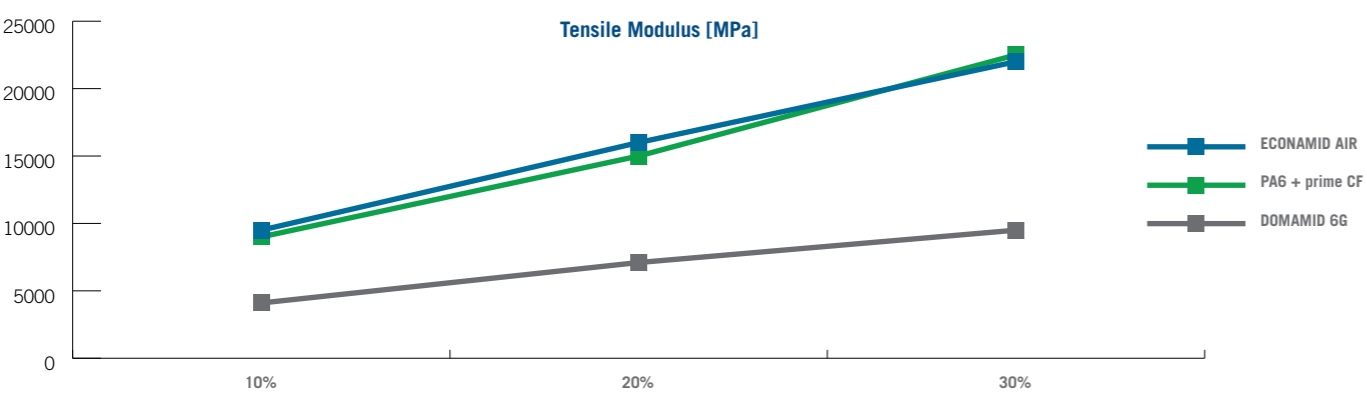
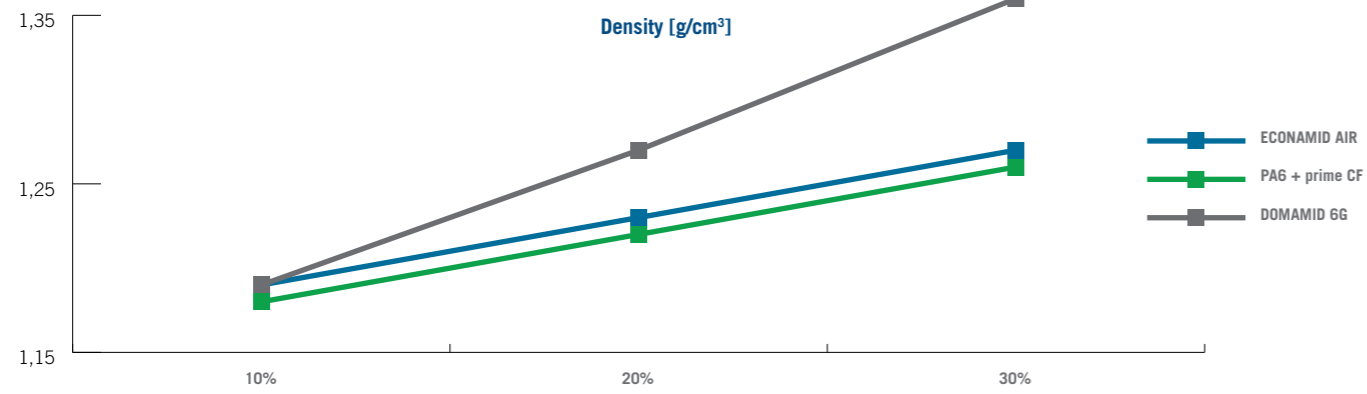
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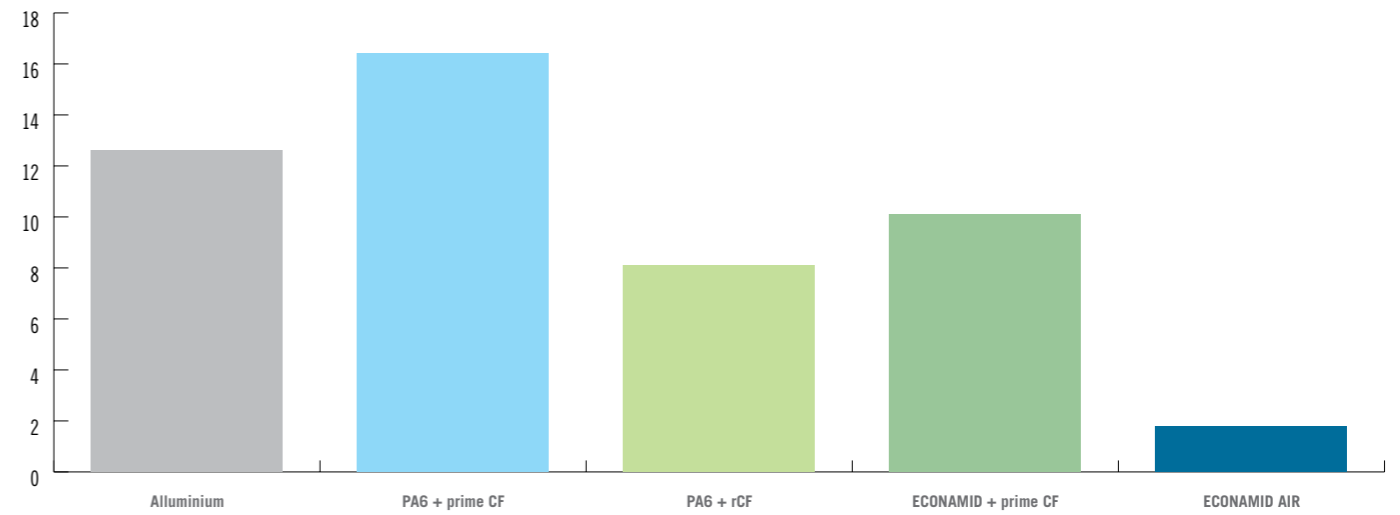
MATERIAL PROPERTIES

- High stiffness with low density
- Improved tribological properties
- Electrical conductivity
- Low carbon footprint
- Electrical surface & volume resistivity

ECONAMID® AIR



The combination of recycled CF and fiber feedstock enables a significant reduction of CO₂ emission



Properties	Density	Tensile modulus	Tensile stress at break	Tensile stress at break	Flexural modulus	Flexural strength	Charpy unnotched	Charpy notched	Melting point	
	Condition STD	ISO 1183 [g/cm³]	1 mm/min ISO 527 [MPa]	5 mm/min ISO 527 [MPa]	5 mm/min ISO 527 [%]	2 mm/min ISO 178 [MPa]	2 mm/min ISO 178 [MPa]	+23 °C ISO 179/1eU [kJ/m²]	+23 °C ISO 179/1eA [kJ/m²]	DSC ISO 11357-1 [°C]
AIR 6										
ECONAMID AIR 6RC10H2	PA6, 10% carbon fiber reinforced, heat stabilized	1.19	9500	135	3.2	7500	170	40	5	221
ECONAMID AIR 6RC20H2	PA6, 20% carbon fiber reinforced, heat stabilized	1.23	16000	175	3.0	13000	240	45	7	221
ECONAMID AIR 6RC30H2	PA6, 30% carbon fiber reinforced, heat stabilized	1.27	22000	190	2.5	18000	260	45	8.5	221
ECONAMID AIR 6RC40H2	PA6, 40% carbon fiber reinforced, heat stabilized	1.31	27500	205	2.2	23000	300	40	9.5	221
ECONAMID AIR 6RC50H2	PA6, 50% carbon fiber reinforced, heat stabilized	1.34	32000	225	2.0	27500	330	40	9	221
AIR 66										
ECONAMID AIR 66RC10H2	PA66, 20% carbon fiber reinforced, heat stabilized	1.19	9500	145	3.3	7400	200	35	3.5	262
ECONAMID AIR 66RC20H2	PA66, 20% carbon fiber reinforced, heat stabilized	1.23	15000	210	3.1	12500	270	45	5.5	262
ECONAMID AIR 66RC30H2	PA66, 30% carbon fiber reinforced, heat stabilized	1.27	22500	235	2.6	18000	300	50	7.5	262
ECONAMID AIR 66RC40H2	PA66, 40% carbon fiber reinforced, heat stabilized	1.32	28000	255	2.0	23500	350	55	7.5	262
ECONAMID AIR 66RC50H2	PA66, 50% carbon fiber reinforced, heat stabilized	1.37	30500	255	1.8	27000	345	45	7.5	262
ECONAMID AIR 66/6RC10H2	PA66/6, 10% carbon fiber reinforced, heat stabilized	1.19	9500	140	3.4	7300	190	35	3.5	262

The performance of ECONAMID® AIR stands up well in comparison to virgin-based carbon fiber solutions. The use of reprocessed filler provides clear environmental benefits without affecting the product's mechanical properties.