

ECONAMID[®] AIR

Carbon fiber reinforced, sustainable compounds, 100 % re-processed material – Lightweight, strength and sustainability

MATERIAL PROPERTIES

High stiffness with low density

Electrical conductivity

Electrical surface & volume resistivity

Improved tribological properties

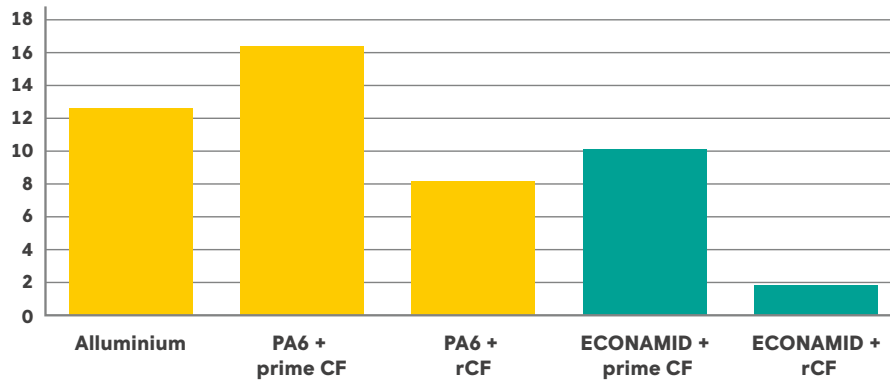
Low carbon footprint



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.

ECONAMID® AIR

THE COMBINATION OF RECYCLED CF AND FIBER FEEDSTOCK ENABLES A SIGNIFICANT REDUCTION OF CO₂ EMISSION



PRODUCT RANGE

	Condition Standard Unit	Density ISO 1183 [g/cm ³]	Tensile Modulus 1 mm/min ISO 527 [MPa]	Tensile Stress at break 5 mm/min ISO 527 [MPa]	Tensile Stress at break 5 mm/min ISO 527 [%]	Flexural modulus 2 mm/min ISO 178 [MPa]	Flexural strength 2 mm/min ISO 178 [MPa]	Charpy unnotched +23 °C ISO 179/1eU [kJ/m ²]	Charpy notched +23 °C ISO 179/1eU [kJ/m ²]	Melting point 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