

ECONAMID® AIR

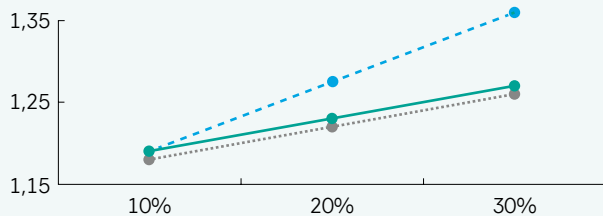
Carbon fiber reinforced, sustainable compounds, 100% reprocessed material –
Lightweight, strength and sustainability

MATERIAL PROPERTIES

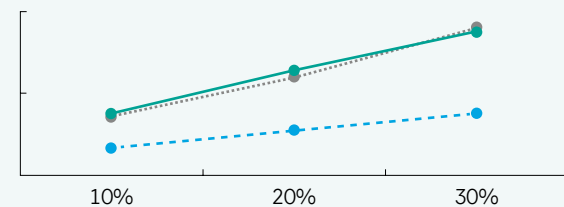
- High stiffness with low density
- Electrical conductivity
- Electrical surface and volume resistivity
- Improved tribological properties
- Low carbon footprint



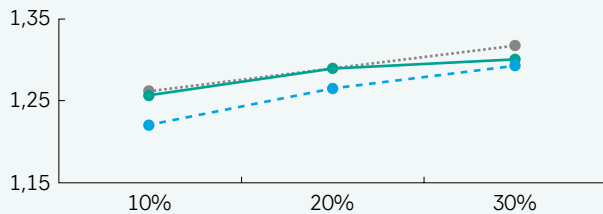
Density [g/cm³]



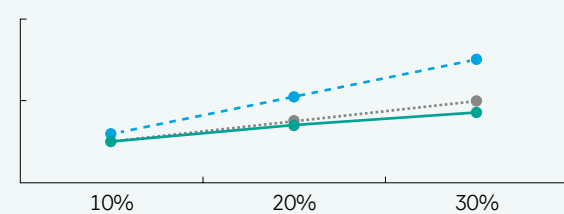
Tensile Modulus [MPa]



Tensile Strength [MPa]



Charpy Notched [kJ/m²]



—●— ECONAMID® AIR

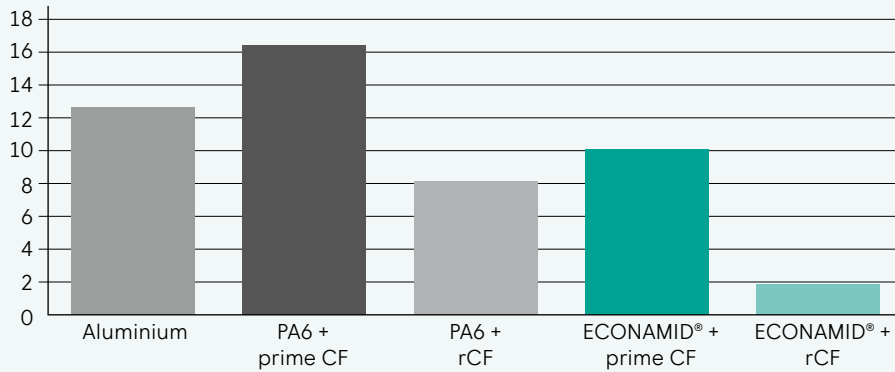
.....●..... PA6 + prime CF

- - -●- - - DOMAMID® 6G

The performance of **ECONAMID® AIR** stands up well in comparison to virginbased 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 IS179/1eU [kJ/m ²]	Melting point DSC ISO 11357-1 [°C]
AIR 6										
ECONAMID®AIR 6RC10H2	PA6, 10% carbon fiber reinforced, heat stabilized	1.19	9 500	135	3.2	7 500	170	40	5	221
ECONAMID®AIR 6RC20H2	PA6, 20% carbon fiber reinforced, heat stabilized	1.23	16 000	175	3.0	13 000	240	45	7	221
ECONAMID®AIR 6RC30H2	PA6, 30% carbon fiber reinforced, heat stabilized	1.27	22 000	190	2.5	18 000	260	45	8.5	221
ECONAMID®AIR 6RC40H2	PA6, 40% carbon fiber reinforced, heat stabilized	1.31	27 500	205	2.2	23 000	300	40	9.5	221
ECONAMID®AIR 6RC50H2	PA6, 50% carbon fiber reinforced, heat stabilized	1.34	32 000	225	2.0	27 500	330	40	9	221
AIR 66										
ECONAMID®AIR 66RC10H2	PA66, 20% carbon fiber reinforced, heat stabilized	1.19	9 500	145	3.3	7 400	200	35	3.5	262
ECONAMID®AIR 66RC20H2	PA66, 20% carbon fiber reinforced, heat stabilized	1.23	15 000	210	3.1	12 500	270	45	5.5	262
ECONAMID®AIR 66RC30H2	PA66, 30% carbon fiber reinforced, heat stabilized	1.27	22 500	235	2.6	18 000	300	50	7.5	262
ECONAMID®AIR 66RC40H2	PA66, 40% carbon fiber reinforced, heat stabilized	1.32	28 000	255	2.0	23 500	350	55	7.5	262
ECONAMID®AIR 66RC50H2	PA66, 50% carbon fiber reinforced, heat stabilized	1.37	30 500	255	1.8	27 000	345	45	7.5	262
ECONAMID®AIR 66/6RC10H2	PA66/6, 10% carbon fiber reinforced, heat stabilized	1.19	9 500	140	3.4	7 300	190	35	3.5	262