

**Preliminary
Technical Data Sheet**

AUROmid® PA 12 GF30 black 9005

PA 12 standard viscosity, 30% glass fiber reinforced

Properties	Test standard	Unit	Value
General			
Density	ISO 1183	g/cm ³	1,21 ± 0,02
Viscosity number (m-cresol)	ISO 307	cm ³ /g	145 ± 10
Humidity absorption (23°C, 50% R.H.)	ISO 62	%	0,6 ± 0,1
Water absorption (23°C, water)	ISO 62	%	1,1 ± 0,1
Filler content		%	30 ± 2
Moisture Content	ISO 760	%	< 0,2
Processing			
Melting temperature, DSC	ISO 11357-1/-3	°C	178
Melt Volume Rate (235°C / 5 kg)	ISO 1133	cm ³ /10 min	50 ± 10
Inj. Molding, melt temperature	-	°C	240-260
Inj. Molding, mold temperature	-	°C	80
Molding shrinkage (parallel)	ISO 294-4	%	0,2 ± 0,1
Molding shrinkage (normal)	ISO 294-4	%	0,7 ± 0,1
Pre-drying			8-10h / 80°C
Mechanical properties			
Tensile modulus	ISO 527-1/-2	MPa	6.600
Stress at break	ISO 527-1/-2	MPa	105
Strain at break	ISO 527-1/-2	%	6,0
Charpy unnotched impact strength (23°C)	ISO 179/1eU	kJ/m ²	80
Charpy unnotched impact strength (-30°C)	ISO 179/1eU	kJ/m ²	-
Charpy notched impact strength (23°C)	ISO 179/1eA	kJ/m ²	10
Charpy notched impact strength (-30°C)	ISO 179/1eA	kJ/m ²	-
Flammability rating			
UL 94, not accredited measurement	ISO 1210 (1,6 mm)		HB

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