

**AUROmid® PA66 HGF15 black 9005**

PA66-GF15

Aurora Kunststoffe GmbH

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	<b>0.6 / *</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.8 / *</b>	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>5800 / 4400</b>	MPa	ISO 527
Stress at break	<b>125 / 85</b>	MPa	ISO 527
Strain at break	<b>3.5 / 10</b>	%	ISO 527
Charpy impact strength, +23°C	<b>45 / 70</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>40 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>6 / 8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>6 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eA

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>260 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>230 / *</b>	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5 / *</b>	mm	-

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>7 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>2.2 / *</b>	%	Sim. to ISO 62
Density	<b>1210 / -</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Processing humidity	<b>≤0.1</b>	%	-
Melt temperature	<b>290 - 300</b>	°C	-
Mold temperature	<b>80</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Delivery form**

Black

**Regional Availability**

Europe

**Special Characteristics**

Heat stabilized or stable to heat