AUROmid® PA12 HGB50 black 9005

PA12-GB50 Aurora Kunststoffe GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.8 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.9 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**4600 / 4300**	MPa	ISO 527
Stress at break	**70 / 65**	MPa	ISO 527
Strain at break	**3 / 5**	%	ISO 527
Charpy impact strength, +23°C	**60 / 40**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6 / 6**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**5 / 5**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**178 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**65 / ***	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-

Other properties	dry / cond	Unit	Test Standard
Water absorption	**0.8 / ***	%	Sim. to ISO 62
Humidity absorption	**0.4 / ***	%	Sim. to ISO 62
Density	**1440 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4 - 8**	h	-
Processing humidity	**≤0.08**	%	-
Melt temperature	**220 - 260**	°C	-
Mold temperature	**80 - 100**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Black

Special Characteristics
Heat stabilized or stable to heat

Chemical Resistance
General Chemical Resistance

Regional Availability
Europe