AUROmid® PA6 H black 9005

PA6 — Aurora Kunststoffe GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.0 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.3 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**3000 / 1000**	MPa	ISO 527
Yield strain	**4 / 20**	%	ISO 527
Stress at break	**80 / 40**	MPa	ISO 527
Strain at break	**24 / >50**	%	ISO 527
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**95 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**5.5 / 55**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**4 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**59 / ***	°C	ISO 75-1/-2
Vicat softening temperature, B	**200 / ***	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-

Other properties	dry / cond	Unit	Test Standard
Water absorption	**9.5 / ***	%	Sim. to ISO 62
Humidity absorption	**3 / ***	%	Sim. to ISO 62
Density	**1130 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**250 - 270**	°C	-
Mold temperature	**60**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Delivery form
Black

Regional Availability
Europe

Special Characteristics
Heat stabilized or stable to heat