AUROmid® PA12 TR55 black 9005

PA12 — Aurora Kunststoffe GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.6 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.7 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**2100 / 2100**	MPa	ISO 527
Yield stress	**70 / 70**	MPa	ISO 527
Yield strain	**8 / 9**	%	ISO 527
Strain at break	**>50 / >50**	%	ISO 527
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**7 / 8**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**6 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**125 / ***	°C	ISO 75-1/-2
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	**3.5 / ***	%	Sim. to ISO 62
Humidity absorption	**1.5 / ***	%	Sim. to ISO 62
Density	**1050 / -**	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	**260 - 280**	°C	-
Mold temperature	**80**	°C	-

Characteristics

Processing
Injection Molding

Chemical Resistance
General Chemical Resistance, Oil Resistance

Delivery form
Black

Regional Availability
Europe