



Technical Datasheet: PA6 F223 D

Product Description:

F223D is a general purpose PA6 with low to medium viscosity. The grade features fast processing properties enabling short moulding cycles. The moulded articles have a high crystallinity resulting in good strength, stiffness and toughness.

Applications:

Technical parts requiring excellent mechanical and thermal properties.

Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density	ISO 1183	g/cm ³	1,13
Flammability			
At 1.6mm	UL94	Class	V-2
At (x) mm		Class(mm)	V-2(0.75mm)
Moisture absorption			
At equilibrium in air 23°C/ 50%RH	ISO 62	%	2,8
After saturation in water 230 °C		%	10
Tensile test			
yield stress (at 50 mm/min)		Mpa	90 / 60
yield strain (at 50 mm/min)		%	3,5 /20
nom. strain at break (at 50 mm/min)	ISO 527-1	%	20 / 50
stress at break (at 5 mm/min)		Mpa	-
strain at break (at 5 mm/min)		%	-
tensile modulus (at 1 mm/min)		Mpa	3500 / 1700

Charpy impact strength			
(at +23°C)	ISO 179/1eU	kJ/m ²	NB / NB
(at -30°C)	ISO 179/1eU	kJ/m ²	120 / NB
notched (at +23°C)	ISO 179/1eU	kJ/m ²	8 / 35
notched (at -30°C)	ISO 179/1eU	kJ/m ²	5 / 5

* Typical values not to be construed as specifications.