Technical specification

Polyamide PA6

Description

PA is a very tough and stable engineering polymer. Good sliding weight. Electrically insulating. Highly abrasion-resistant. Good resistance too many oils, greases, diesel, gasoline, cleaning solvents, etc. Suitable applications include engine and vehicle manufacturing, for example, gear and sliding rails.

Properties	Unit	Value	Test method
Density		1.14	
Tensile Strength	mPa	78*	
Elongation at break	%	50	
E-modulus	mPa	3000*	
Impact strength			
Unscored	KJ/m²	-	
Notched	KJ/m²	4*	
Hardness	N/mm²	136*	
Water absorption at 23°C and 50% r.h.	%	2.6	
Dynamic friction coefficient of lubricated		0.25-0.35	
Compressive strength at 2% elongation			
Not clamped	N/mm²	15	
clamped	N/mm²	50	
Maximal temperature in oxygen area			
Short time	°C	160	
Conscious	°C	80-100	
Minimum temperature in oxygen area	°C	-40	
Thermal conductivity	10^-6m/m°C	95	
Volume resistivity	Ohm cm	10^15*	
Surface resistivity	Ohm	5 x 10^12*	
Dialectic strength	kV/mm	35	

* In dry condition
This specification is given by our best knowledge and might be submitted to changes.

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