

Technical specification

Polyamide PA66

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	82*	
Elongation at break	%	25	
E-modulus	mPa	3300*	
Impact strength			
Unscored	KJ/m ²	-	
Notched	KJ/m ²	4*	
Hardness	N/mm ²	156*	
Water absorption at 23°C and 50% r.h.	%	2.4	
Dynamic friction coefficient of lubricated		0.25-0.35	
Compressive strength at 2% elongation			
Not clamped	N/mm ²	18	
Clamped	N/mm ²	60	
Maximal temperature in oxygen area			
Short time	°C	180	
Conscious	°C	100-110	
Minimum temperature in oxygen area			
	°C	-30	
Thermal conductivity	10 ⁻⁶ m/m°C	90	
Volume resistivity	Ohm cm	10 ¹⁵ *	
Surface resistivity	Ohm	5 x 10 ¹² *	
Dialectic strength	kV/mm	40	

* In dry condition

This specification is given by our best knowledge and might be submitted to changes.