AkuLon® 66.6 GX

Modified Polyamide alloy (P66 + PA6 + UV stabiliser)



AkuLon 66.6 GX is a copolymer of nylon 66 and 6, combining the impact resistances of PA6 with the higher stiffness of PA66. UV stabilisation makes it suitable for outdoor applications.

roperties	Test method	Unit	Value
Mechanical			
ensile strength	ISO 527	МРа	86
longation at break	ISO 527	%	45
Nodulus of elasticity (tensile)	ISO 527	МРа	3100
Nodulus of elasticity (flexural)	ISO 178	МРа	2800
lotch impact strength	ISO 179	KJ / m²	5
lexural strength	ISO 178	МРа	110
Compressive stress 5 % strain	ISO 604	МРа	95
Compressive modulus	ISO 604	МРа	2900
hore hardness	ISO 868	D	83
ockwell hardness	ISO 2039	М	88
all indentation hardness	ISO 2039	МРа	170
hermal			
Nelting temperature	ISO 3146	°C	240
Glass transition temperature (Tg)	ISO 11357	°C	47
hermal conductivity	ISO 22007	W / (m * K)	0,26
Coef. of linear thermal expansion	ISO 11359	10 ⁻⁴ / K	0,3
ong term service temperature	See note *	°C	-30 → 92
hort term service temperature	See note *	°C	160
leat deflection temperature	ISO 75 HDT/A	°C	88
lammability	UL 94	=	HB / V2
lammability (oxygen index)	ISO 4589	%	27
lectrical			
pielectric constant at 1MHz	IEC 60250	10 ⁶ Hz	4
issipation factor at 1MHz	IEC 60250	10 ⁶ Hz	0,06
Olume resistivity	IEC 60093	Ω * cm	≥ 10 ¹²
urface resistivity	IEC 60093	Ω	≥ 10 ¹²
pielectric strength	IEC 60243	kV / mm	22
racking resistance (CTI)	IEC 60112	V	600
Additional Data			
Pensity	ISO 1183-1	g / cm³	1,14
Vater absorption (saturation)	ISO 62	%	8,4
lumidity absorption (saturation)	ISO 62	%	2,6
ood compliance	EEC		No
ood compliance	FDA	_	No
Coefficient of Friction (pin-on-disk)	ISO 7148-2	<u> </u>	0,4
hapes	Rod (20 → 100 Ø)	_	
Colour	Black		

• Copolymer nylon 66.6 exhibits good resistance to crude oil, processed petroleum hydrocarbons, organic solvents and alkalis.

The conditioned material values stated are average test results. The data provides information about our products and offers a guide for material selection. This does not provide an assurance of specific properties or the products suitability for a particular application.

It solely remains the customers responsibility to test and assess the suitability and compatibility of Plastim's products for it's intended applications, processes and uses. The customer undertakes all liability in respect of the application, processing or use of the aforementioned information or product.

- * Long term service temperature are based on the thermal ageing of the polymer by oxidation, resulting in a decrease in mechanical capabilities
- * Short term service temperature only applies to very low mechanical stress for a very limited time only.

Properties can vary depending on the raw shape selected and the degree of crystallisation. The actual property values of a finished product may differ from the indicated values stated.