



Technical data sheet

Volgamid® PA6TNC103

6

Super-toughened PA6

Item	Typical Characteristic		Testing Standard
	Value	Unit	
Mechanical Properties			
Tensile Strength	42	MPa	ISO527, 50mm/min
Elongation at break		%	ISO527, 50mm/min
Flexural Strength	50	MPa	ISO178, 2mm/min
Flexural Modulus		MPa	ISO178, 2mm/min
Charpy Impact notched	83	KJ/m ²	ISO179/1eA
Charpy Impact unnotched	NB	KJ/m ²	ISO179/1eU
Rockwell Hardness	105		ISO2039/2
Thermal Properties			
Temp. of deflection under load (0.45MPa)			ISO75
Temp. of deflection under load (1.80MPa)	51		ISO75
Melting Point	220		ISO3146C
Electrical Properties			
Volume Resistant		ohm*m	IEC60093
Surface Resistant	10 ¹²	ohm	IEC60093
Dielectric Strength		KV/mm	IEC 60243-1
Comp Track Index		V	IEC 60112
Others			
Specific Gravity	1.05	g/cm ³	ISO1183
Ash Content		%	ISO3451-4
Water Absorption		%	ISO62
Mold Shrinkage	1.2/1.5	%	ISO294-4
UL Flammability	HB	mm/Class	UL-94
Glow-wire Flammability Index		mm/	IEC 60695-2-12

Disclaimer Unless specified to the contrary, the value given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum value. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the colouring.