

## PA-6 G 703 XL

Mechanical properties	Test method	Test environment	Unit	Value
Tensile strength	ISO 527	yield, dry	MPa	60
Tensile strength	ISO 527	yield, conditioned	MPa	40
Tensile strain	ISO 527	yield, dry	%	6
Tensile strain	ISO 527	break, dry	%	15
Tensile strain	ISO 527	break, conditioned	%	>25
Tensile modulus	ISO 527	dry	GPa	2,75
Tensile modulus	ISO 527	conditioned	GPa	1,35
Compression strength	ISO 604	1% deformation, dry	MPa	26
Impact strength	ISO 179	Charpy, unnotched, dry	kJ/m <sup>2</sup>	25
Impact strength	ISO 179	Charpy, notched, dry	kJ/m <sup>2</sup>	4

Thermal properties	Test method	Test environment	Unit	Value
Service temperature	--	lower limit	°C	-20
Service temperature	--	short term	°C	160
Service temperature	--	continuous 5.000/20.000 h	°C	105/90
Melting point	ISO 3146	-	°C	215
Heat distortion temperature	ISO 75	1,82 MPa	°C	70
Coefficient of linear thermal expansion	--	23-60 °C	10 <sup>-5</sup> K <sup>-1</sup>	8,5
Coefficient of linear thermal expansion	--	23-100 °C	10 <sup>-5</sup> K <sup>-1</sup>	10
Thermal conductivity	ASTM D257	-	W/m,K	0,30

Electrical properties	Test method	Test environment	Unit	Value
Volume resistivity	IEC 60093	dry	ohm cm	>10 <sup>14</sup>
Volume resistivity	IEC 60093	conditioned	ohm cm	>10 <sup>12</sup>
Surface resistivity	IEC 60093	dry	ohm	>10 <sup>13</sup>
Surface resistivity	IEC 60093	conditioned	ohm	>10 <sup>12</sup>

Other properties	Test method	Test environment	Unit	Value
Density	ISO 1183	-	g/cm <sup>3</sup>	1,11
Water absorption	- -	equilibrium, 23 °C, RH 50%	%	2
Water absorption	- -	immersion, 24 h, 23 °C	%	0,61
Water absorption	- -	saturation, immersion, 23 °C	%	6,3
Oxygen index	ISO 4589	-	%	<20
Flammability	UL 94	-	-	HB

The data presented are taken from our suppliers and represent our best knowledge. The values are given in good faith. They should not constitute the basis for calculations, construction etc. The responsibility for verifying material data rests with the end-user.