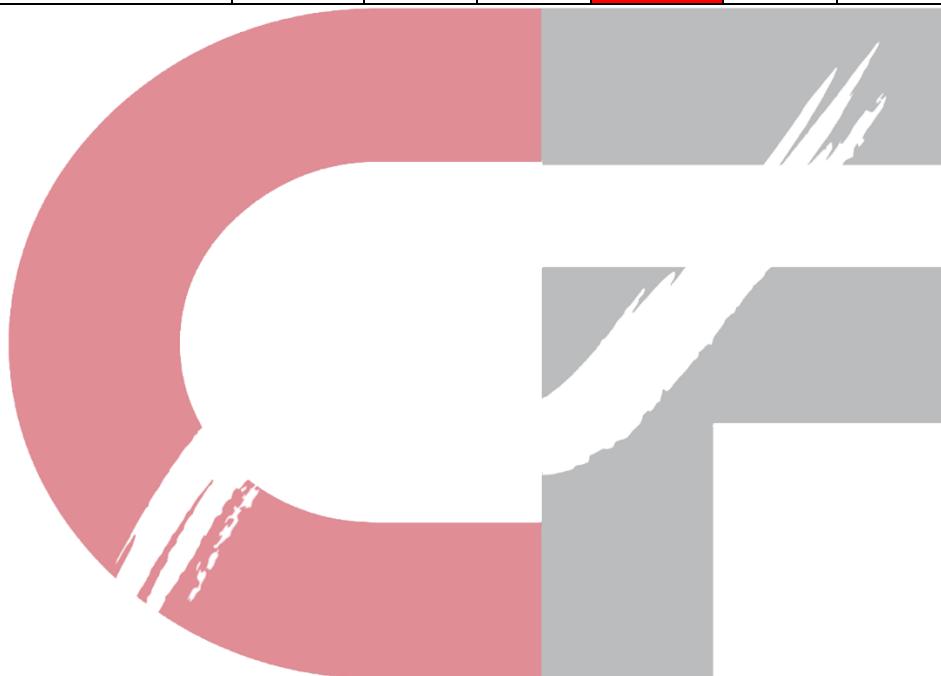


## Technical Data Sheet PA

Properties	POM C	PA 6	PA G	PA6 GOIL	PA 66	PA6 GF	Test method
<b>Density</b>	1.14	1.14	1.15	1.14	1.14	1.30	ISO.1183 DIN.53479
<b>Water absorption</b>	0.2	2.8	2.4	1.5	2.6	2	-
<b>Absorption 23°C</b>	0.7	9.0	7.0	4.8	8.0	5.2	-
<b>Tensile strength at break</b>	66	54 (80)	58 (85)	50 (70)	61 (88)	100 (130)	ISO.527 DIN.53455
<b>Elongation at break</b>	50	180 (60)	100 (20)	120 (35)	150 (40)	20	ISO.527 DIN.53455
<b>Tensile modulus of elasticity</b>	2700	1700 (3000)	1900 (3400)	1700 (3100)	1900 (3200)	4000	ISO.527 DIN.53455
<b>Compression test</b>	14	6 (18)	7 (20)	6 (19)	7 (20)	15 (28)	ISO.899 DIN.533444
<b>Impact strength</b>	n.b	n.b	n.b	n.b	n.b	n.b	ISO.R179 DIN.53453
<b>Notched impact strength chirpy</b>	9	25 (5)	23 (5)	25 (8)	18 (5)	10	ISO.179/3C DIN.53453
<b>Ball indentation hardness</b>	140	80 (155)	100 (165)	80 (150)	100 (170)	170 (210)	ISO.2039.1 DIN.53456
<b>Rockwell hardness</b>	M88	M85	M88	M82	M89	M95	ISO.2039.2
<b>Coefficient of friction to steel</b>	0.30	0.42	0.42	0.34	0.42	0.50	-
<b>Melting point</b>	165		220	220	255	220	-
<b>Thermal conductivity</b>	0.30	0.25	0.28	0.28	0.25	0.25	DIN.52612
<b>Deformation at temp. HDT</b>	115	83	96	90	103	150	ISO.75 DIN.53461
<b>Linear expansion coefficient</b>	110	90	80	80	85	50	-
<b>Operating temperature continuously</b>	110	88	100	100	95	105	-
<b>Dissipation factor</b>	0.01	0.06	0.05	0.05	0.06	0.06	ISO.250 DIN.53483

<b>Operating temperature Short period no load</b>	+140	+150	+160	<b>+160</b>	+165	+170	-
<b>Minimum Operating temperature</b>	-50	-40	-30	<b>-30</b>	-30	-30	-
<b>Flammability UL94</b>	HB V2	HB V2	HB V2	<b>HB</b>	HB V2	HB V2	UL94
<b>Oxygen index</b>	15	24	25	<b>25</b>	25	24	ISO.4589
<b>Dielectric constant</b>	3.8	7 (3.6)	7 (3.7)	<b>7 (3.7)</b>	7 (3.6)	7 (3.6)	ISO.250 DIN.53483
<b>Dielectric strength</b>	50	25	30	<b>30</b>	25	25	ISO.243 DIN.53481
<b>Volume resistivity</b>	$10^{15}$	$10_{12}$	$10_{12}$	<b><math>10_{12}</math></b>	$10_{12}$	$10_{12}$	ISO.93 DIN53482



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