

Grade list PA66 filled

		Grade		2020GC4	2020GC6	2020GC9	2015SG3	2015SG6	2020GX7H	2020R
		ISO Identification Mark		>PA66–GF20<	>PA66–GF30<	>PA66–GF45<	>PA66–GF15–FD<	>PA66–GF30–FD<	>PA66–GF35<	>PA66–MD40<
		Unit	Method							
Density		g/cm³	ISO 1183	1.28	1.36	1.5	1.52	1.61	1.39	1.5
Water absorption	23 °C ,50%RH	%	UBE method	1.4	1.3	1.0	1.2	0.9	0.9	1.1
Mold shrinkage	MD	%	UBE method	0.6	0.5	0.4	0.5	0.3	0.3	1.3
	TD	%		1.4	1.3	1.1	1	0.9	1.1	1.6
Tensile strength		MPa	ISO 527–1,2	150	190	240	125	165	210	95
Tensile strain at break		%		2.7	3.5	3	3	2	4	4
Tensile modulus		GPa		7.2	9.8	15.2	7.2	11		6.5
Flexural strength		MPa	ISO 178	145	290	355	190	255	310	155
Flexural modulus		GPa		7	9.5	15	6.7	11	11	6.3
Charpy impact		Kj/m²	ISO 179–1	9.2	13.0	16.5	5.5	9	12	3.5
DeflectionTemp. under Load	0.45MPa	°C	ISO 75–1,2	–	–	–	–	–	–	235
	1.8MPa	°C		245	250	–	240	250	220	130
Coef. Of linear thermal expansion		X10–5/°C	ISO 11359–2	3.5	2.5	2	2.5	2	–	5
Electric strength		Kv/mm	IEC 60243–1	–	–	–	19	19	–	–
Arc resistance		S	ASTM	151	127	127	–	–	–	148
C.T.I.		UL Index	UL746A	0	0	0	–	–	–	0
Relative permittivity		–	IEC 60250	3.6	3.7	3.8	–	–	–	4.1
Flammability class / thickness in mm			UL 94	HB/0.79	HB/0.79	HB/0.79	V–0	V–0	–	–