

	Unit	Test Method	FD400	FD460	FD600	FD600A	PL400C	PL600A	PL400 BLACK	JON6000	JON6000	JNF9000	JPF9012	JCF9000	JCL9000	J-3154	JCF9000	JCF9000	PL6000	JON6200	JON6300
Powder/Pellet			Powder	Powder	Powder	Powder	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet	Pellet
Composition			Conventional Grade (Low molecular)	Conventional Grade (Mid molecular)	Conventional Grade (high molecular)	Slow Crystal	Film (Mid molecular)	Film (Slow crystal)	Injection	GF reinforced	CF reinforced	Wear-Friction	Wear-Friction	Wear-Friction	Wear-Friction	Wear-Friction	Wear-Friction	Wear-Friction	Wear-Friction	Wear-Friction	Wear-Friction
Typical application			Compound	Compound	Compound	Compound	Film	Film		CF30%		PTFE	PTFE/Graphite	CF/PTE	CF/Lubricated	PTFE/Organic filler	Graphite/PTFE	CF/Lubricated	CF/PTE	Crystalized	Crystalized CF reinforced
Tg	°C	DSC	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245
Tm	°C	DSC	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388
Powder Particle size	µm		20µm	20µm	20µm	20µm															
Wf	gr/10min		18.38	8.11	3.4	3.548	4.680	3.545	8	6	3	8	10	30	35	11	6	19	2	3	5
[test method]			400°C*1.05g	400°C*1.05g	400°C*1.05g	400°C*1.05g	400°C*1.05g	400°C*1.05g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g	400°C*2.16g
Specific Gravity	%	ASTM D792					1.33	1.33	1.32	1.35	1.43	1.43	1.38	1.45	1.42	1.43	1.501	1.36	1.42	1.31	1.42
Moisture Absorption(MD7D)	%	MCI					0.740.85	0.740.85	0.740.85	0.000.66	0.771.20	0.750.98	0.000.70	0.000.66			0.350.52			0.901.40	0.000.89
Water Absorption(24hrs)	%	ASTM D570					0.34	0.34	0.34	0.23											0.200.90
Tensile strength	MPa	ASTM D-638					62	91	171	251	65	73	166	239		69	79	178	223	91	260
Elongation	%	ASTM D-638					90	70	33	13	13	5	2	4		3	2	3	50	2	3
Flexural strength	MPa	ASTM D-790					137	136	138	239	103	118	274	339		110	110	253	160	368	254
Flexural Modulus	MPa	ASTM D-790					2900	3034	21704	8642	2400	2851	14163	20954		3171	6857	10248	16688	3228	22250
ICOD Impact	J/m	ASTM D-256					86	84	107	112	77	88	113	152		44	47	96	113	87	110
Rockwell hardness	M Scale	ASTM D-785					95	95	104												
Compressive Strength(MD)	MPa	ASTM D-695					118		227												
HDT	°C	ASTM D-648					230	235	229	241	245	225	227	244	245	230	239	243	248	214	236
app@10 heat	kJ/°C·kg	ASTM C-177					1.91		0.92												238
Thermal Conductivity	W/m·°C						0.17		0.49												
Coefficient of Linear Thermal Expansion (Flow Direction)	10 ⁻⁶ %	ASTM D-698					5.5/5.5	5.5/5.5	5.5/5.5	1.7/5.3	0.6/4.7	5.0/5.2	4.5/4.8	0.3/4.5	0.6/4.7		2.0/3.2	0.8/4.7		4.9/5.6	0.3/4.6
Surface resistivity	Ω	ASTM D-257					10 ¹² - 10 ¹⁶		10 ¹²	10 ¹² - 10 ¹⁶				10 ¹² - 10 ¹⁶							
Volume Resistivity	Ω·m	ASTM D-257					10 ¹² - 10 ¹⁶		10 ¹² - 10 ¹⁶					10 ¹² - 10 ¹⁶							
Dielectric Constant		ASTM D-150					3.1	3.2	3.7												
Dissipation Factor		ASTM D-150					0.0009	0.0012	0.0036												
CTI							150		150												
Flammability (UL-94)		UL-94					V-0		V-0												
Limiting Oxygen Index (Thickness)		ASTM D-2863					47(3.2mm)		47(3.2mm)												
Limit PV value (Dry (with BUS))	MPa·m/min	MCI										188	118	118	188	98			118		
HLI (with BUS)	MPa·m/min											735	735	735	735			735			