MECHANICAL PROPERTIES

Abbreviation	Additive or color	Temperature of use	Density	Yield stress	Breakdown voltage	Modulus of elasticity (tension)	Modulo di elasticità (trazione)	Modulus of elasticity (bending)	Hardness test	Breaking strength	Resistance elongation	Wear creep
		C°	g/cm3	MPa	MPa	%	MPa	MPa	MPa	MPa	MPa	µ/Km
PTFE	natural	260	2,18	25		>50	700		30	5	1,58	21
PAG	natural	100	1,13	85/60		70/200	3000/1800		160/70	45	4,5	0,23
PC	trasparent	120	1,2	60			2300		100	48	18	22
PET	natural, black	110	1,37	88			3200		95		13	0,35
POM-C	natural, black	100	1,41	62		30	2700		145	40	13	8,9
PP	black, grey	100	0,91	30		>50	1600		80	22	4	11
PE-HMV	natural	90	0,95	25	40	>50	1100	900	52			
PEEK	natural, black	260	1,30	95		25	3800	4100	M99 (r)			
EPDM	black	100	1,2		35	350			70	10		
PU	red		1,26			430			90			
PVC	natural, grey black, red		1,42	55	30		3000			30	18	
PMMA	trasparent	85	1,19	120	70	4	3200				4	11

THERMAL PROPERTIES

Melting temperature	Glass transition temperature	Hot dimensional stability (met. A)	Hot dimensional stability (met. B)	Use temperature limit	Thermal conductivity	Heat capacity	Coefficient of thermal expansion
C°	C°	C°	C°	C°	W/K.m	J/K.m	10 -6/K
327	-20	55	121	260	0,25	1	12
220	60/5	75	190	160	0,23	1,7	8
	148	135	140	140	0,19	1,2	7
255	70	95	170	170	0,24	1,1	7
165	-60	110	160	140	0,31	1,5	10
165	-18	65	105	130	0,22	1,7	17
136		44	-70	120	0,41	1,84	20
343	143	140	182	300	0,25	0,32	5
				100			
86	75			60	0,14		8
				85	0,19	1,47	7

ELECTRICAL PROPERTIES

Constant dielectric	Dielectric loss factor	Specific bulk resistivity	Surface resistivity	Rigidity dielectric	Resistance to leakage current
abs	Tanδ	Ω.cm	Ω	kV/mm	classe
2,1	0,0002	10^{16}	10^{16}	45	KA 3-c KB-600
3,7-7	0,030-0,300	10^{13}	10^{15}	20÷50	CTI600
3	0,006	10^{15}	10^{16}	27	KA 1
3,2	0,0021	10^{15}	10^{16}	60	KC 250
3,5	0,013	10^{14}	10^{15}	>60	KA 3c
2,25	0,0002	$>10^{16}$	$>10^{16}$	>40	KA 3c-C-600
2,1	0,0004	10^{16}	10^{15}	>150	KC-600
3,8-3,3	0,001-0,004	10^{16} 10^{14}	10^{16}	20	
3	0,01	10^{14}	10^{15}	35	
	0,06	10	10^{14}	30	

VARIOUS PROPERTIES

Moisture absorption	Water absorption until saturation	Combustibility
%	%	
<0,05		VO
3	9,5	HB
0,15	0,36	HB
0,25	0,5	HB
<0,3	0,5	HB
<0,1	<0,1	HB
0,1	0,2	HB
0,1	0,5	VO
0,2	0,2	VO