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Thermoplastic PVC compounds Technical data sheet

PVC Thermoplastic Elastomers

Sunprene®

PVC Thermoplastic Elastomers

Sumiflex® K

Low-gloss surface PVC compound

Sunfrost®
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Automotive

Soft type PVC compounds for extrusion

Test items	Unit	Sunprene							Sunfrost	Test method
		FA55JB	FA60GA	FA65KC	FA65DZ	FA70HH	FA80FA	FA90EB	KA75GA	
Hardness (after 10sec.)	-	55	60	66	65	71	82	90	76	JIS K 6253
Specific gravity	-	1.21	1.18	1.21	1.22	1.23	1.29	1.32	1.24	JIS K 7112
Tensile strength	MPa	13	16	19	19	19	25	26	10	JIS K 6723
Elongation	%	430	430	430	440	410	390	370	200	JIS K 6723
100% modulus	MPa	3.4	4.6	5.1	4.6	6.4	10	13	7.4	JIS K 6723
Characteristics and various uses		Low-gloss, Exterior	Exterior	Exterior	Good elastic, Exterior	Exterior	Cold resistance, Exterior	Cold resistance, Exterior	Low-gloss, Exterior	

These data are not guaranteed values.

Soft type PVC compounds for injection

Test items	Unit	Sunfrost	Sumiflex K series		Sunfrost					Test method
		KB75GA	K58DL13	K768DB6	KD55JB	KD60HA	KD70QA	KD80MA	KD90EA	
Hardness (after 10sec.)	-	77	49	48	55	60	70	81	90	JIS K 6253
Specific gravity	-	1.26	1.21	1.28	1.21	1.22	1.25	1.33	1.32	JIS K 7112
Tensile strength	MPa	13	5.1	13	6.2	6.5	8.1	11	17	JIS K 6723
Elongation	%	240	250	460	230	220	210	200	210	JIS K 6723
100% modulus	MPa	8.5	2.7	3.0	3.5	4.2	6.7	9.1	14	JIS K 6723
Characteristics and various uses		Low-gloss, Exterior	Low-gloss, Interior	Oil resistance, Fire retardant	Low-gloss, Interior					

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Living support

Soft type PVC compounds for extrusion

Test items	Unit	Sumiflex K series	Sunprene				Sumiflex K series	Sunprene		Test method
		K530DA	FE60JB	FE60AD	FE65HB	FE70DH	K761B	FG40EA	FG60FA	
Hardness (after 10sec.)	-	55	59	67	66	66	64	44	61	JIS K 6253
Specific gravity	-	1.28	1.24	1.19	1.25	1.48	1.25	1.13	1.18	JIS K 7112
Tensile strength	MPa	15	15	17	19	12	23	10	18	JIS K 6723
Elongation	%	440	440	410	420	380	450	500	460	JIS K 6723
100% modulus	MPa	3.4	3.7	6.2	5.3	3.7	6.9	2.3	4.7	JIS K 6723
Characteristics and various uses		Fire retardant, no-change over to ABS	Low-gloss	no-change over to ABS	Low-gloss, Cold resistance	Fire retardant	Transparent, no-change over to PS	Transparent		

These data are not guaranteed values.

Soft type PVC compounds for injection

Test items	Unit	Sunprene					Sunfrost	Sumiflex K series		Test method
		FF40FB	FF55JC	FF65EC	FF70GA	FF80FA	KF65GA	K768AC9	K580AH17	
Hardness (after 10sec.)	-	42	53	64	70	78	67	74	89	JIS K 6253
Specific gravity	-	1.21	1.22	1.32	1.26	1.25	1.27	1.38	1.47	JIS K 7112
Tensile strength	MPa	10	13	15	22	26	9.6	17	7.6	JIS K 6723
Elongation	%	480	460	410	400	370	330	320	110	JIS K 6723
100% modulus	MPa	1.9	3.1	4.4	6.4	11	4.2	6.9	7.4	JIS K 6723
Characteristics and various uses		Building material	general goods	Fire retardant	Cold resistance		Low-gloss, general goods	UL94V-0, no-change over to PS	Low-gloss, Building material	

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