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Property	Test Method (ASTM)	Test Condition	Unit	
MECHANICAL				
Tensile Strength at yield	D638	50mm/min	kg/cm ² MPa lb/in ²	
Tensile Modulus	D638	1mm/min	kg/cm ² MPa lb/in ²	
Elongation at yield	D638	50mm/min	%	
Elongation at break	D638	50mm/min	%	
Flexural Strength at yield	D790	15mm/min	kg/cm ² MPa lb/in ²	
Flexural Modulus	D790	15mm/min	kg/cm ² MPa lb/in ²	
Izod Impact Strength (Notched)	D256	1/4", 23°C	kg-cm/cm J/m ft-lb/in	
		1/4", -30°C	kg-cm/cm J/m ft-lb/in	
	D256	1/8", 23°C	kg-cm/cm J/m ft-lb/in	
		1/8", -30°C	kg-cm/cm J/m ft-lb/in	
	Rockwell Hardness	D785	R-Scale	-
	THERMAL			
Heat Deflection Temp	18.5kg/cm ² 1/4"	D648 (annealed)	°C °F	
		D648 (unannealed)	°C °F	
	4.6kg/cm ² 1/4"	D648 (annealed)	°C °F	
		D648 (unannealed)	°C °F	
Vicat Softening Temp	D1525	1kg/120°C/h	°C °F	
		5kg/50°C/h	°C °F	
Flammability	UL94	1/8"	class	
		1/10"	class	
	IEC707	1/16"	class	
		1/8"	mm/min mm/min	
PHYSICAL				
Specific Gravity	D792		-	
Molding Shrinkage	D955		%	
Melt Flow Index	D1238(G)	200°C/ 5kg	g/10min	
	-	220°C/ 10kg	g/10min	
	D1238(L)	230°C/3.8kg	g/10min	
CHARACTERISTICS				

* Notes : 1) The values of properties in the above table has been obtained by the test pieces (natural color) manufactured under certain conditions of injection.
2) The listed values should be used for referential purposes only.

Property	Test Method (ASTM)	Test Condition	Unit	
MECHANICAL				
Tensile Strength at yield	D638	50mm/min	kg/cm ² MPa lb/in ²	
Tensile Modulus	D638	1mm/min	kg/cm ² MPa lb/in ²	
Elongation at yield	D638	50mm/min	%	
Elongation at break	D638	50mm/min	%	
Flexural Strength at yield	D790	15mm/min	kg/cm ² MPa lb/in ²	
Flexural Modulus	D790	15mm/min	kg/cm ² MPa lb/in ²	
Izod Impact Strength (Notched)	D256	1/4", 23°C	kg-cm/cm J/m ft-lb/in	
		1/4", -30°C	kg-cm/cm J/m ft-lb/in	
	D256	1/8", 23°C	kg-cm/cm J/m ft-lb/in	
		1/8", -30°C	kg-cm/cm J/m ft-lb/in	
Rockwell Hardness	D785	R-Scale	-	
THERMAL				
Heat Deflection Temp	18.5kg/cm ² 1/4"	D648	(annealed)	°C °F
			(unannealed)	°C °F
	4.6kg/cm ² 1/4"	D648	(annealed)	°C °F
			(unannealed)	°C °F
Vicat Softening Temp	D1525	1kg/120°C/h	°C °F	
		5kg/50°C/h	°C °F	
Flammability	UL94	1/8"	class	
		1/10"	class	
		1/16"	class	
	IEC707	1/8"	mm/min mm/min	
PHYSICAL				
Specific Gravity	D792		-	
Molding Shrinkage	D955		%	
Melt Flow Index	D1238(G)	200°C/ 5kg	g/10min	
	-	220°C/ 10kg	g/10min	
	D1238(I)	230°C/3.8kg	g/10min	
CHARACTERISTICS				

* Notes : 1) The values of properties in the above table has been obtained by the test pieces (natural color) manufactured under certain conditions of injection.
2) The listed values should be used for referential purposes only.



HIGH IMPACT						HIGH FLOW			TRANSPARENT		
HI-100	HI-100H	HI-121	HI-121H	HI-151	HI-153	HF-350	HF-380	NT-520	TR-556	TR-557	TR-558A
370	380	455	540	490	480	445	445	445	440	430	520
36	37	45	53	48	47	44	44	44	43	42	51
5,200	5,400	6,500	7,700	7,000	6,800	6,300	6,300	6,300	6,200	6,100	7,400
16,400	17,200	21,200	22,600	23,200	24,800	21,400	21,900	21,800	17,800	17,800	22,200
1,610	1,690	2,080	2,210	2,270	2,430	2,100	2,150	2,140	1,740	1,740	2,180
233,000	244,000	301,000	321,000	329,000	352,000	304,000	311,000	310,000	253,000	253,000	315,000
>6	>6	>6	>6	>6	>6	>6	>6	>6	>6	>6	>6
23	35	23	29	15	14	18	16	12	50	50	40
557	595	717	805	803	764	699	708	705	660	630	800
55	58	70	79	79	75	69	69	69	65	62	78
7,900	8,500	10,200	11,400	11,400	10,900	9,900	10,100	10,000	9,300	8,900	11,400
17,381	19,471	23,503	26,308	26,525	25,900	23,476	24,104	24,161	19,500	20,500	25,000
1,700	1,910	2,300	2,580	2,600	2,540	2,300	2,360	2,370	1,900	2,000	2,450
247,000	276,000	334,000	374,000	377,000	368,000	333,000	342,000	343,000	277,000	291,000	355,000
44	51	36	21	22	18	27	28	26	16	15	10
430	500	360	210	210	180	260	280	250	160	150	100
8.0	9.3	6.7	3.9	4.0	3.4	4.9	5.2	4.7	3.0	2.8	1.8
32	33	13	7	8	7	10	10	10	8	7	5
310	320	130	72	76	69	94	99	94	79	69	49
5.9	6.0	2.4	1.3	1.4	1.3	1.8	1.9	1.8	1.5	1.3	0.9
47	51	42	22	23	20	27	30	28	17	16	11
460	500	410	220	230	200	260	290	270	170	160	110
8.6	9.3	7.7	4.0	4.2	3.7	5.0	5.5	5.1	3.1	2.9	2.0
35	34	14	8	9	7	10	13	11	7	6	5
340	340	140	77	84	69	99	130	110	68	59	49
6.4	6.3	2.6	1.5	1.6	1.3	1.9	2.4	2.0	1.3	1.1	0.9
89	94	106	110	110	111	106	107	106	105	105	112
85	85	87	87	86	86	86	87	85	89	89	89
185	185	189	189	187	187	187	189	185	192	192	192
87	92	92	92	93	90	90	90	89	88	88	89
189	198	198	198	199	194	194	194	193	190	190	192
90	92	94	93	92	91	90	92	91	95	95	95
194	198	201	199	198	196	194	198	196	203	203	203
88	89	91	90	89	89	88	89	88	90	90	90
190	192	196	194	192	192	190	192	190	194	194	194
97	99	98	99	99	98	97	98	98	98	98	100
207	210	208	210	210	208	207	208	208	208	208	212
91	93	93	94	94	93	93	93	93	93	93	93
196	199	199	201	201	199	199	199	199	199	199	199
HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
FH3-33		FH3-34	FH3-34	FH3-32	FH3-30	FH3-35	FH3-35				
1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.09	1.09	1.11
0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7
1.2	1.0	1.9	1.8	2.4	5.1	4.0	3.8	4.5	0.5	2.0	2.2
11	11	19	21	23	46	40	40	40	5	20	20
3.5	3.0	6.3	6.0	8.8	18.2	13.2	12.8	15.8	2.2	8.7	9.2
Super high impact	Super high impact, Helmet	High impact	High impact, High whiteness	Middle impact	Weather resistance	High flow, High impact	High flow, High impact	High flow, Non toxicity	Extrusion	High impact	High strength

HIGH GLOSS				ANTISTATIC		PAINTING	HIGH STRENGTH	PIPE	
HG-173	HG-174	SG-175	RX-710	NS-161	AP-163	PT-270	HT-700	PI-641	PI-642
490	500	495	415	495	430	385	540	470	510
48	49	49	41	49	42	38	53	46	50
7,000	7,100	7,000	5,900	7,000	6,100	5,500	7,700	6,700	7,200
25,400	24,200	24,600	20,000	23,000	16,900	16,900	24,300	21,200	22,100
2,490	2,370	2,410	1,980	2,250	1,680	1,660	2,380	2,080	2,170
361,000	344,000	349,000	284,000	327,000	240,000	240,000	345,000	301,000	314,000
>6	>6	>6	>6	>6	>6	>6	>6	>6	>6
14	20	20	17	17	17	19	21	25	19
766	784	811	629	751	670	595	824	790	778
75	77	80	62	74	66	58	81	77	76
10,900	11,100	11,500	8,900	10,700	9,500	8,400	11,700	11,200	11,000
25,581	26,803	28,038	21,859	25,763	20,709	18,942	26,621	24,200	23,895
2,510	2,630	2,750	2,140	2,520	2,030	1,860	2,610	2,370	2,340
363,000	381,000	398,000	310,000	366,000	294,000	269,000	378,000	344,000	339,000
24	16	18	45	14	35	36	20	40	36
230	160	170	440	140	340	350	190	390	350
4.3	3.0	3.3	8.3	2.6	6.5	6.6	3.6	7.4	6.6
11	9	10	28	7	28	25	9	33	15
110	80	100	270	69	270	250	88	320	140
2.0	1.6	1.9	5.1	1.3	5.1	4.6	1.7	6.0	2.7
25	18	19	40	20	45	40	22	54	31
250	180	180	390	200	440	390	220	530	310
4.6	3.3	3.4	7.3	3.7	8.2	7.3	4.0	9.9	5.7
11	9	10	30	8	30	26	10	34	16
110	92	100	290	78	290	250	99	340	150
2.0	1.7	1.9	5.5	1.5	5.4	4.8	1.9	6.3	2.9
110	112	112	95	111	95	95	113	105	108
86	87	89	91	92	87	84	87	84	87
187	189	192	196	198	189	183	189	183	189
91	90	93	89	90	90	90	93	93	93
196	194	199	192	194	194	194	199	199	199
91	92	95	96	96	93	90	90	90	93
196	198	203	205	205	199	194	194	194	199
89	90	93	95	94	92	87	87	87	92
192	194	199	203	201	198	189	189	189	198
103	101	103	99	102	100	95	104	97	122
217	214	217	210	216	212	203	219	207	252
95	94	95	97	95	94	91	95	91	96
203	201	203	207	203	201	196	203	196	205
HB	HB	HB	HB		HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
FH3-30		FH3-30	FH3-33	FH3-36	FH3-30	FH3-34	FH3-33		
1.05	1.05	1.05	1.05	1.05	1.06	1.05	1.05	1.05	1.05
0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7
2.2	5.8	3.6	2.0	4.7	2.9	1.8	1.8	0.6	0.5
23	54	29	26.7	46	26	23	19	8	7
7.9	15.4	11.9	6.0	15.9	7.9	5.9	6.5	2.3	2.0
High impact, High gloss	Super High flow, High gloss	High strength, Super high gloss	Super high glass, HCPC resistance	Antistatic, High strength	Permanent antistatic, High impact	Chemical resistance, High impact	High strength, Scratch resistance	Super high impact, Fitting	High strength, Fitting



EXTRUSION					BLOW MOLDING	LOW GLOSS		
RS-650	RS-656H	RS-800	SH-610	SH-610A	BM-662	LG-703A	LG-749	LG-709
500	470	420	470	440	490	460	430	440
49	46	41	46	43	48	45	42	43
7,100	6,700	6,000	6,700	6,200	7,000	6,500	6,100	6,200
23,000	23,500	21,000	23,500	20,000	23,500	21,200	20,900	21,000
2,250	2,300	2,060	2,300	1,960	2,300	2,080	2,050	2,060
327,000	334,000	298,000	334,000	284,000	334,000	301,000	297,000	298,000
>6	>6	>6	>6	>6	>6	>6	>6	>6
30	35	30	20	30	35	20	30	15
790	760	680	770	670	760	770	700	725
77	75	67	76	66	75	76	69	71
11,200	10,800	9,700	10,900	9,500	10,800	10,900	9,900	10,300
26,000	27,000	22,000	26,000	22,000	25,000	24,800	23,000	23,000
2,550	2,650	2,180	2,550	2,180	2,450	2,430	2,250	2,250
369,000	383,000	312,000	389,000	312,000	355,000	352,000	327,000	327,000
32	38	45	26	45	25	20	21	11
310	370	440	250	440	250	200	210	110
5.9	7.0	8.3	4.8	8.3	4.6	3.7	3.9	2.1
13	20	22	12	26	9	9	7	5
130	200	220	120	250	88	87	73	49
2.4	3.7	4.0	2.2	4.8	1.7	1.6	1.4	0.9
34	40	48	28	52	27	25	23	15
330	390	470	270	510	260	250	230	150
6.2	7.3	8.8	5.1	9.6	5.0	4.6	4.2	2.8
15	19	23	11	28	10	10	8	7
150	190	230	110	270	98	99	77	69
2.8	3.5	4.2	2.0	5.1	1.8	1.9	1.5	1.3
107	105	100	108	99	110	106	105	109
92	92	91	93	90	97	97	101	110
198	198	196	199	194	207	207	214	230
89	90	89	91	88	93	93	97	107
192	194	192	196	190	199	199	207	225
96	96	95	98	94	105	105	109	119
205	205	203	208	201	221	221	228	246
94	94	93	95	92	102	102	106	116
201	201	199	203	198	216	216	223	241
105	105	101	103	103	122	106	125	135
221	221	214	217	217	252	223	257	275
96	96	95	98	94	100	99	103	116
205	205	203	208	201	212	210	217	241
HB	HB	HB			HB		HB	
HB	HB	HB	HB	HB	HB		HB	
FH3-30	FH3-28		FH3-33	FH3-35				
1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7
0.7	0.5	0.5	2.0	0.5	0.6	0.6	0.4	0.2
6.5	5.0	5.5	16.0	5.0	6.0	5.4	4.2	1.4
1.6	1.4	1.4	4.0	1.1	2.1	2.3	1.2	0.7
General purpose	High impact, CFC, C-Pentane resistance	High impact, HCFC resistance	High impact, Extrusion	High impact, High whiteness	Heat resistance, Blow molding	General low gloss	High heat resistance, Low gloss	Super high heat resistance, Low gloss

METAL PLATING		HEAT RESISTANCE			HIGH HEAT RESISTANCE		
MP-211	MP-220	ER-461	XR-401	XR-404	XR-409H	XR-472	XR-474
450	460	470	490	500	450	450	490
44	45	46	48	49	44	44	48
6,400	6,500	6,700	7,000	7,100	6,400	6,400	7,000
21,800	22,400	21,000	24,200	24,100	22,700	22,300	23,800
2,140	2,200	2,060	2,370	2,360	2,220	2,190	2,330
310,000	318,000	298,000	344,000	342,000	322,000	317,000	338,000
>6	>6	>6	>6	>6	>6	>6	>6
20	15	20	35	35	20	15	15
720	730	780	790	800	760	710	800
71	72	76	77	78	75	70	78
10,200	10,400	11,100	11,200	11,400	10,800	10,100	11,400
23,900	23,600	26,200	26,400	26,400	24,900	24,400	25,500
2,340	2,310	2,570	2,590	2,590	2,440	2,390	2,500
339,000	335,000	372,000	375,000	375,000	354,000	346,000	362,000
37	37	27	23	18	13	23	11
360	360	260	230	180	127	230	110
6.7	6.8	5.0	4.2	3.3	2.4	4.2	2.0
19	19	12	9	6	5	13	6
180	180	120	88	59	49	130	59
3.4	3.4	2.2	1.7	1.1	0.9	2.4	1.1
38	38	29	25	20	14	25	15
370	370	280	250	200	140	250	150
7.0	7.0	5.3	4.6	3.7	2.6	4.6	2.8
19	19	12	9	6	6	14	7
190	190	120	88	59	59	140	69
3.5	3.5	2.2	1.7	1.1	1.1	2.6	1.3
106	105	110	111	111	108	108	112
90	91	93	101	106	112	99	114
194	196	199	214	223	234	210	237
86	87	91	97	102	107	95	112
187	189	196	207	216	225	203	234
96	97	102	110	114	119	105	122
205	207	216	230	237	246	221	252
94	95	99	106	110	116	102	118
201	203	210	223	230	241	216	244
103	103	113	123	128	135	123	140
217	217	235	253	262	275	253	284
99	99	99	103	110	116	105	118
210	210	210	217	230	241	221	244
HB	HB	HB	HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB	HB	HB
FH3-33	FH3-34	FH3-34	FH3-33	FH3-34	FH3-34	FH3-22	FH3-34
1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.07
0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7
1.9	2.0	1.4	0.9	0.8	0.3	0.9	0.2
20.0	20.0	15.0	10.0	8.0	3.0	9.0	2.0
6.8	7.3	5.0	3.5	3.0	1.2	3.0	0.8
Metal plating	Metal plating	Heat resistance, High impact resistance	General heat resistance	General high heat resistance	Super high heat resistance	PMI High heat resistance, High gloss	PMI Super High heat resistance



FLAME RETARDANT							
AF-312	AF-312T	AF-320T	AF-342	AF-342T	AF-345	AF-348	EF-378
420	410	410	430	420	430	440	470
41	40	40	42	41	42	43	46
6,000	5,800	5,800	6,100	6,000	6,100	6,200	6,700
22,000	22,000	21,200	21,700	21,700	21,700	22,000	22,000
2,160	2,160	2,080	2,130	2,130	2,130	2,160	2,160
312,000	312,000	301,000	308,000	308,000	308,000	312,000	312,000
>5	>5	>5	>5	>5	>5	>5	>5
20	25	25	20	25	20	25	25
680	670	670	690	680	690	720	730
67	66	66	68	67	68	71	72
9,700	9,500	9,500	9,800	9,700	9,800	10,200	10,400
24,900	24,900	24,200	24,600	24,600	24,100	24,500	27,000
2,440	2,440	2,370	2,410	2,410	2,360	2,400	2,650
354,000	354,000	344,000	349,000	349,000	342,000	348,000	383,000
24	26	26	18	18	15	15	25
240	250	250	160	180	150	150	250
4.4	4.8	4.8	2.9	3.3	2.8	2.8	4.6
9	10	10	6	7	6	6	8
88	98	98	59	69	59	59	78
1.7	1.8	1.8	1.1	1.3	1.1	1.1	1.5
29	32	32	20	22	19	20	26
280	310	310	200	220	190	200	250
5.3	5.9	5.9	3.7	4.0	3.5	3.7	4.8
9	10	10	6	7	6	6	8
88	98	98	57	69	60	59	78
1.7	1.8	1.8	1.1	1.3	1.1	1.1	1.5
104	103	103	103	102	103	106	107
78	78	78	82	82	82	84	78
172	172	172	180	180	180	183	172
76	76	76	80	80	80	82	76
169	169	169	176	176	176	180	169
83	83	83	87	87	87	89	83
181	181	181	189	189	189	192	181
81	81	81	85	85	85	87	81
178	178	178	185	185	185	189	178
88	88	88	91	91	91	93	88
190	190	190	196	196	196	199	190
85	85	85	89	89	89	90	85
185	185	185	192	192	192	193	185
V-0	V-0	V-0,5VB	V-0,5VB	V-0,5VB	V-0	V-2	V-2
5VB	5VB	V-0,5VB	V-0,5VB	V-0,5VB	5VA		
V-0	V-0	V-0	V-0	V-0	V-0	V-2	V-2
FV0	FV0		FV0	FV0	FV0	FV2	
1.18	1.18	1.18	1.18	1.18	1.19	1.13	1.05
0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7
5.1	5.1	5.3	3.6	3.6	3.7	4.5	4.9
52	50	50	35	37	36	45	50
17.1	17.1	17.4	12.8	12.8	13.0	15.6	16.7
High impact, High flow	High impact, High flow (Slim wall)	High impact, High flow (Slim wall)	Heat resistance, Weather resistance	Heat resistance, Weather resistance (Slim wall)	5VA Heat resistance, Weather resistance	V-2 Heat resistance, Weather resistance	V-2 Halogen Free



INJECTION MOLDING			EXTRUSION		HEAT RESISTANCE
LI-911	LI-912	LI-921	LI-913	LI-923	LI-941
500	480	515	420	490	480
49	47	51	41	48	47
7,100	6,800	7,300	6,000	7,000	6,800
22,100	21,200	22,100	17,600	21,900	20,400
2,170	2,080	2,170	1,720	2,150	2,000
314,000	301,000	314,000	250,000	311,000	290,000
>6	>6	>6	>6	>6	>6
20	25	20	40	28	30
800	740	830	660	800	780
78	73	81	65	78	76
11,400	10,500	11,800	9,400	11,400	11,100
24,500	23,000	25,500	20,000	24,000	24,000
2,400	2,250	2,500	1,980	2,350	2,350
348,000	327,000	362,000	284,000	341,000	341,000
10	15	13	40	20	13
99	150	130	390	200	130
1.9	2.8	2.4	7.3	3.7	2.4
3	4	5	6	5	4
33	39	49	59	49	39
0.6	0.7	0.9	1.1	0.9	0.7
12	20	16	49	25	16
120	200	160	480	240	160
2.2	3.7	2.9	9.0	4.6	2.9
4	4	5	6	5	4
39	39	49	59	49	39
0.7	0.7	0.9	1.1	0.9	0.7
107	103	105	95	105	106
90	91	90	89	91	98
194	196	194	192	196	208
86	86	88	85	88	94
187	187	190	185	190	201
100	100	102	98	101	106
212	212	216	208	214	223
96	96	98	94	96	101
205	205	208	201	205	214
103	106	107	103	108	114
217	223	225	217	226	237
95	95	96	94	95	100
203	203	205	201	203	212
HB	HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB
1.07	1.07	1.07	1.07	1.06	1.07
0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7	0.4-0.7
2.3	1.0	0.9	0.7	0.4	0.6
22	11	9	7	4	7
6.9	3.2	2.9	2.4	1.2	2.0
High flow	Standard	High stiffness	High impact	High toughness	High heat resistance



GPPS						MIPS			
15NF(I)	20HR(IH)	20HR(E)	25SP(I)	25SP(E)	25SP(R)	MI730	MI750	MI750L	MI770
460	465	480	485	500	520	420	380	385	250
45	46	47	48	49	51	41	37	38	25
6,500	6,600	6,800	6,900	7,100	7,400	6,000	5,400	5,500	3,600
29,100	29,100	29,200	29,400	29,400	29,900	27,100	25,100	26,400	22,400
2,850	2,850	2,860	2,880	2,880	2,930	2,660	2,460	2,590	2,200
413,000	413,000	415,000	417,000	417,000	425,000	385,000	356,000	375,000	318,000
-	-	-	-	-	-	>4.5	>4.5	>4.5	>4.5
>4	>4	>4	>4	>4	>4	20	40	30	50
840	900	960	950	1,000	1,100	700	590	580	550
82	88	94	93	98	108	69	58	57	54
11,900	12,800	13,600	13,500	14,200	15,600	9,900	8,400	8,200	7,800
33,000	33,000	33,000	33,000	33,000	33,000	30,000	27,000	26,000	25,000
3,230	3,230	3,230	3,230	3,230	3,230	2,940	2,650	2,550	2,450
469,000	469,000	469,000	469,000	469,000	469,000	426,000	383,000	369,000	355,000
1.2	1.2	1.2	1.2	1.2	1.2	4.0	5.0	9.0	6.0
12	12	12	12	12	12	39	49	88	59
0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.7	1.1
1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.0	3.0
10	10	10	10	10	10	20	29	49	29
0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.9	0.6
1.6	1.6	1.6	1.6	1.6	1.6	5.0	6.5	11.0	8.5
16	16	16	16	16	16	49	64	110	83
0.3	0.3	0.3	0.3	0.3	0.3	0.9	1.2	2.0	1.6
1.0	1.0	1.0	1.0	1.0	1.0	3.0	4.0	6.0	5.0
10	10	10	10	10	10	29	39	59	49
0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	1.1	0.9
120	120	120	120	120	120	110	110	110	105
93	94	96	95	97	98	93	91	92	91
199	201	205	203	207	208	199	196	198	196
85	86	86	86	87	88	83	82	82	81
185	187	187	187	189	190	181	180	180	178
94	95	95	97	98	100	93	92	92	92
201	203	203	207	208	212	199	198	198	198
88	88	89	88	89	92	88	87	87	87
190	190	192	190	192	198	190	189	189	189
99	102	102	102	103	104	101	99	101	98
210	216	216	216	217	219	214	210	214	208
96	97	98	97	98	99	90	89	89	89
205	207	208	207	208	210	194	192	192	192
HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
FH3-28	FH3-28	FH3-28	FH3-28	FH3-28	FH3-28				
1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04
0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8
9.5	7.5	6.0	3.5	2.8	2.4	8.0	6.5	4.0	5.5
High flow	Heat resistance	Heat resistance, Extrusion	Chemical resistance, High strength	High strength, Extrusion	Chemical resistance, Heat resistance	Medium impact	Medium impact	High impact, High strength	Medium impact

HIPS					FR-HIPS				
50IS	50IS(L)	60HR	60HR(G)	65IH(E)	40AF	403AF	405AF	407AF	478EF
270	280	290	270	300	260	270	260	260	260
27	27	28	27	29	26	27	26	26	26
3,800	4,000	4,100	3,800	4,300	3,700	3,800	3,700	3,700	3,700
18,000	18,000	18,200	18,200	18,300	19,000	19,300	19,200	19,100	19,200
1,760	1,760	1,780	1,760	1,790	1,860	1,890	1,880	1,870	1,880
256,000	256,000	258,000	256,000	260,000	270,000	274,000	273,000	271,000	273,000
>5	>5	>5	>5	>5	>4	>4	>4	>4	>4
50	50	55	55	55	60	60	50	60	50
430	440	460	440	470	420	440	440	450	440
42	43	45	43	46	41	43	43	44	43
6,100	6,200	6,500	6,200	6,700	6,000	6,200	6,200	6,400	6,200
22,000	22,500	22,000	22,000	21,500	22,000	23,000	23,000	24,000	24,000
2,160	2,210	2,160	2,160	2,110	2,160	2,250	2,250	2,350	2,350
312,000	320,000	312,000	312,000	305,000	312,000	327,000	327,000	341,000	341,000
8	8	9	9	10	9	9	7	9	9
78	78	90	90	100	88	88	71	88	88
1.5	1.5	1.7	1.7	1.9	1.7	1.7	1.3	1.7	1.7
4	4	5	5	5	4	4	2	4	5
38	38	48	48	49	34	39	24	39	49
0.7	0.7	0.9	0.9	0.9	0.6	0.7	0.4	0.7	0.9
10	10	13	13	13	11	12	9	12	12
99	99	130	130	130	110	120	86	118	118
1.9	1.9	2.4	2.4	2.4	2.0	2.2	1.6	2.2	2.2
4	4	5	5	5	4	5	3	5	6
40	40	51	51	51	36	49	26	49	59
0.8	0.8	1.0	1.0	1.0	0.7	0.9	0.5	0.9	1.1
98	100	99	98	98	89	97	88	95	94
87	87	90	90	92	90	89	89	89	84
189	189	194	194	198	194	192	192	192	183
79	79	80	80	81	79	77	77	78	73
174	174	176	176	178	174	171	171	172	163
91	91	93	93	94	91	90	89	90	84
196	196	199	199	201	196	194	192	194	183
83	83	86	86	87	85	83	82	84	78
181	181	187	187	189	185	181	180	183	172
98	98	100	100	99	97	96	95	96	91
208	208	212	212	210	207	205	203	205	196
86	86	88	88	89	85	83	83	84	79
187	187	190	190	192	185	181	181	183	174
HB	HB	HB	HB	HB	V-0	V-2	V-0	V-2	V-2
HB	HB	HB	HB	HB	V-0	V-2	V-0	V-2	V-2
FH3-31	FH3-31	FH3-28	FH3-28	FH3-30	FVD				
1.03	1.03	1.03	1.03	1.03	1.16	1.06	1.16	1.10	1.04
0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8	0.4~0.8
7.5	7.5	4.0	5.5	3.0	10.0	9.5	14.0	9.0	12.0
General	General	Heat resistance	High flow, Heat resistance	High impact, Extrusion	General	V-2 Non-Deca, Weather resistance, Low density	Non dioxin	V-2	V-2 Halogen Free



ALPHALAC						
SF-510	SI-610	SH-850	SH-850H	SG-910	SG-960	SG-970
270	270	250	190	340	360	370
27	27	25	19	33	35	36
3,800	3,800	3,600	2,700	4,800	5,100	5,300
17,000	18,000	17,000	17,000	21,300	22,000	23,000
1,670	1,760	1,670	1,670	2,090	2,160	2,250
241,000	256,000	241,000	241,000	302,000	312,000	327,000
>5	>5	>5	>5	>5	>5	>5
50	60	90	90	30	40	40
410	440	360	300	520	560	570
40	43	35	29	51	55	56
5,800	6,200	5,100	4,300	7,400	8,000	8,100
23,000	22,000	16,000	15,000	23,500	25,000	26,000
2,250	2,160	1,570	1,470	2,300	2,450	2,550
327,000	332,000	227,000	213,000	334,000	355,000	369,000
11	15	9	10	12	10	9
108	150	88	98	120	98	88
2.0	2.8	1.7	1.8	2.2	1.8	1.7
5	6	5	5	6	5	5
49	63	49	49	57	49	49
0.9	1.2	0.9	0.9	1.1	0.9	0.9
14	21	12	13	17	13	11
140	200	120	130	170	130	110
2.6	3.8	2.2	2.4	3.1	2.4	2.0
6	7	5	5	6	5	5
59	67	49	49	59	49	49
1.1	1.2	0.9	0.9	1.1	0.9	0.9
98	96	83	71	100	105	107
90	93	88	88	93	90	90
194	199	190	190	199	194	194
80	82	79	75	82	81	81
176	180	174	167	180	178	178
90	96	88	88	97	91	91
194	205	190	190	207	196	196
85	86	83	83	88	85	85
185	187	181	181	190	185	185
99	100	98	97	100	101	101
210	212	208	207	212	214	214
86	87	85	84	88	86	86
187	189	185	183	190	187	187
HB	HB	HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB	HB
FH3-28						
1.04	1.04	1.04	1.04	1.04	1.04	1.04
0.4-0.8	0.4-0.8	0.4-0.8	0.4-0.8	0.4-0.8	0.4-0.8	0.4-0.8
12.0	6.5	4.0	5.5	3.7	5.5	6.5
Super High flow, High impact	Super high impact, High flow	Chemical resistance, Extrusion	Chemical resistance, Extrusion	Super high gloss, Super high impact	Super high gloss, High impact	Super high gloss, High impact



SAN					
82TR	82TR(C)	80HF(LLHK)	80HF(L)	90HR(L)	95HC(TC)
680	680	760	750	800	825
67	67	75	74	78	81
9,700	9,700	10,800	10,700	11,400	11,700
31,400	31,400	31,700	31,700	32,700	34,200
3,080	3,080	3,110	3,110	3,200	3,350
446,000	446,000	450,000	450,000	464,000	486,000
-	-	-	-	-	-
>6	>6	>6	>6	>6	>6
1,100	1,100	1,250	1,230	1,350	1,450
108	108	123	121	132	142
15,600	15,600	17,800	17,500	19,200	20,600
36,500	36,500	37,500	37,500	38,000	38,500
3,580	3,580	3,680	3,680	3,720	3,770
518,00	518,000	533,000	533,000	540,00	547,000
1.2	1.2	1.2	1.2	1.2	1.3
12	12	12	12	12	13
0.2	0.2	0.2	0.2	0.2	0.2
1.0	1.0	1.0	1.0	1.0	1.0
10	10	10	10	10	10
0.2	0.2	0.2	0.2	0.2	0.2
1.6	1.6	1.6	1.6	1.6	1.8
16	16	16	16	16	18
0.3	0.3	0.3	0.3	0.3	0.3
1.0	1.0	1.0	1.0	1.0	1.0
10	10	10	10	10	10
0.2	0.2	0.2	0.2	0.2	0.2
123	123	123	123	124	124
96	96	99	99	100	102
205	205	210	210	212	216
88	88	91	90	91	92
190	190	196	194	196	198
100	100	100	100	103	106
212	212	212	212	217	223
93	93	95	95	97	95
199	199	203	203	207	203
104	104	107	107	107	108
219	219	225	225	225	226
98	98	100	100	101	103
208	208	212	212	214	217
HB	HB	HB	HB	HB	HB
HB	HB	HB	HB	HB	HB
					FB3-28
1.07	1.07	1.07	1.07	1.07	1.07
0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6
5.0	5.0	1.9	2.6	2.5	1.3
55	55	21	29	55	14
19.5	19.5	7.5	10.3	9.3	4.8
High clarity, Crystal	High clarity, Ice color	High strength, Ice color	High strength, Ice color	High strength, Heat resistance, Ice color	Chemical resistance, High strength



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