

Item	Test Method		Unit	ES-A65C1	ES-A69CE1	ES-A70C1
	Characteristic			(3)	Transparence	
Hardness	JIS K 6253	typeA	point	65	69	72
		typeD	"	-	-	21
Specific Gravity	JIS K 7112		-	0.98	0.99	1
Melt Flow Rate	ASTM D 1238	230 × 21.2N	g/10min	4	5	5.9
Tensile strength	JIS K 6251		MPa	6.4	7.4	7
300%Modulus	"		"	-	4.1	-
Elongation	"		%	600	790	670
Tear Strength	JIS K 6252		kN/m	38	44	36
Rebound resilience	JIS K 6255		%	68	70	69
Taber abrasion Test	JIS K 6264	H22 × 9.8N × 1000Cycle	mg	324	-	257
Compression Set	JIS K 6262	23 × 24hr	%	20	20	14
		70 × 24hr	%	58	47	52
		100 × 24hr	%	62	52	53
Softening Temperature	our method 1			68	103	101
Brittleness Temperature	JIS K 7216			<-60		
Mold Shrinkage (Vertical/Flowing directions)	our method 2		%	0.5 / 1.3	0.8 / 1.3	0.9 / 1.2
Molding Method	-		-	Injection · Extrusion		
Drying	-		-	necessary(80 ~ 90 × 3 ~ 4hour)		
Color	-		-	Translucent		
Total Light Transmittance	JIS K 7361		%	82	76	65
Haze	JIS K 7136		"	43	31	47
Fusion strength	our method	PP	-	x	x	x
		ABS	-			
		PC	-			
		PET-G	-			

The values shown in the table are representative ones and not guaranteed.

The figures in the table are subject to change without notice.

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1 Softening temperature measurement method: Vicat softening temperature (at temperature rise rate of 50 /hour and load of 2.5N) was determined with a needle inserted by 1mm.

2 Shrinkage : A film gate sheet (126mm x 126mm x 2mm) was formed (at mold temperature of 40 and cooling period of 40 seconds) .

3 This is a grade that is made to order and sold.