

Item	Test Method		Unit	ES-A50NX	ES-A60NX	ES-A70NX	ES-A80NX	ES-A75PB ( 3)
	Characteristic							
Hardness	JIS K 6253	typeA	point	47	60	75	80	70
		typeD	"	8	11	17	22	-
Flexural modulus	JIS K 7171		MPa	-	-	15	20	-
Specific Gravity	JIS K 7112		-	0.95	0.98	0.99	1.03	1.00
Melt Flow Rate	ASTM D 1238	190 × 21.2N	g/10min	-	-	-	-	-
		230 × 21.2N	"	1.0	0.3	3.7	9.2	-
		230 × 49N	"	-	-	-	-	0.2
Tensile strength	JIS K 6251		MPa	6.8	9.4	10.4	10.7	21.8
300%Modulus	"		"	-	-	-	-	3.6
Elongation	"		%	780	860	870	880	660
Tear Strength	JIS K 6252		kN/m	27	33	41	53	33
Rebound resilience	JIS K 6255		%	72	71	67	68	36
Taber abrasion Test	JIS K 6264	H22 × 9.8N × 1000Cycle	mg	492	275	295	272	260
Compression Set	JIS K 6262	23 × 24hr	%	-	-	-	-	23
		70 × 24hr	"	53	55	55	53	53
Softening Temperature	our method 1			74	81	104	122	90
Brittleness Temperature	JIS K 7216			<-60				
Mold Shrinkage (Vertical/Flowing directions)	our method 2		%	0.7/1.9	0.8/1.7	0.8/1.3	0.9/1.1	1.1/2.0
Molding Method	-		-	Injection · Extrusion				
Drying	-		-	necessary(80 ~ 90 × 3 ~ 4hour)				
Color	-		-	Natural · Black				
Fusion strength	our method	PP	-	×	×	×	×	×
		ABS	-					
		PC	-					
		PET	-	-	-	-	-	-
		AS	-					
		PET-G	-					
		PBT	-	-	-	-	-	-
POM	-	-	-	-	-	-	-	

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.