

High wear resistance grade S series (ESTERAR / TPC)

ARONKASEI CO., LTD.

Item	Test Method		Unit	ES-A50S1	ES-A70S1	E-D27S1	E-D53S1
	Characteristic						
Hardness	JIS K 6253	typeA	point	48	75	80	97
		typeD	"	11	21	23	49
Specific Gravity	JIS K 7112		-	0.96	0.99	1.07	1.18
Melt Flow Rate	ASTM D 1238	170 × 21.2N	g/10min	-	-	1	-
		210 × 21.2N	"	-	-	-	8
		230 × 21.2N	"	1.8	6.9	-	-
Tensile strength	JIS K 6251		MPa	5.2	6.7	22	22
Elongation	"		%	750	760	1050	730
Tear Strength	JIS K 6252		kN/m	22	42	76	119
Rebound resilience	JIS K 6255		%	71	65	71	58
Taber abrasion Test	JIS K 6264	H22 × 9.8N × 1000Cycle	mg	83	23	2	8
Compression Set	JIS K 6262	23 × 24hr	%	17	23	26	12
		70 × 24hr		50	50	56	52
		100 × 24hr		64	59	70	60
Softening Temperature	our method 1			70	106	111	189
Brittleness Temperature	JIS K 7216			<-60			
Mold Shrinkage (Vertical/Flowing directions)	our method 2		%	0.0 / 2.7	0.5 / 1.3	0.2 / 0.4	1.4 / 1.4
Molding Method	-		-	Injection · Extrusion			
Drying	-		-	necessary(80 ~ 90 × 3 ~ 4hour)			
Color	-		-	Natural			
Fusion strength	our method	PP	-	x	x	x	x
		ABS	-				x
		PC	-				

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.