

Vibration damping grade AR-DM series (Elastomer AR / TPS)

ARONKASEI CO., LTD.

Item	Test Method		Unit	AR-S-4424	AR-DM-30 (※3)	AR-DM-50 (※3)	AR-DM-70 (※3)
	Characteristic		-	Standard	High vibration damping		
Hardness	JIS K 6253	typeA	point	40	31	48	70
Specific Gravity	JIS K 7112		-	1.08	1.2	1.15	1.22
Melt Flow Rate	ASTM D 1238	230℃×21.2N	g/10min	1	5	1	1
Tensile strength	JIS K 6251		MPa	4	3	5	8
Elongation	〃		%	440	475	370	354
Tear Strength	JIS K 6252		kN/m	18	13	20	36
Rebound resilience	JIS K 6255		%	46	10	14	10
Taber abrasion Test	JIS K 6264	H22×9.8N×1000Cycle	mg	996	-	462	81
Compression Set	JIS K 6262	23℃×24hr	%	10	-	-	-
		70℃×24hr	〃	39	24	17	16
		100℃×24hr	〃	53	22	23	20
Softening Temperature	our method ※1		℃	76	98	100	121
Brittleness Temperature	JIS K 7216		℃	-54	-36	-34	-10
Mold Shrinkage (Vertical/Flowing directions)	our method ※2		%	0.7 / 4.1	0.7 / 2.2	0.8 / 1.6	0.5 / 1.0
Molding Method	-		-	Injection ・ Extrusion			
Drying	-		-	unnecessary			
Color	-		-	Black	Natural		
Fusion strength	our method	PP	-	○	○	○	○
		ABS	-	×	×	×	×
		PC	-	×	×	×	×
		PET	-	×	×	×	×
		6Ny(PA)	-	×	×	×	×
		PBT	-	×	×	×	×
		POM	-	×	×	×	×
		PVC	-	×	×	×	×
tan δ (23℃)	our method	30Hz×5℃/min	-	0.25	0.5	0.5	0.5
Flame Retardance	UL-94		-	HB equivalent	HB equivalent	HB equivalent	HB equivalent

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.

