

TECHNICAL DATA SHEET

EPDM COMPOUND HARDNESS 50 SHORE A

EPDM compound that has hardness of 50 shore A with good quality properties such as tensile strength, and also good heat resistance and compression set properties and besides, it can good flow in mold. For molding process, this compound can be molded good processability for compression and injection processes.

Application : Hose, Grommet, Tube, Anti-Vibration, Damper, Mounting Rubber, Rubber Pad

Compound properties

Test item	Unit	Test Method	Result
Compound A			
Mooney viscosity (ML 1+4 @ 100°C)	-	ASTM D 1646	34.35
Specific gravity (A)	g/cm ³	ASTM D 297	1.149
Dispersion	-	-	Pass
Compound B			
Specific gravity (Cure)	g/cm ³	ASTM D 297	1.151
Cure rheograph			
		ASTM D 5289	
ML	lbf.in		2.28
MH	lbf.in		12.22
Ts2	min.sec		1.47
T90	min.sec		3.2
Original properties			
Hardness	Shore A	ASTM D2240A	52
Tensile strength	kgf/cm ²	ASTM D 412	155.72
Elongation at break	%	ASTM D 412	509.05
Modulus 100%	kgf/cm ²	ASTM D 412	21.45
Modulus 300%	kgf/cm ²	ASTM D 412	82.13
Tear strength	kgf/cm	ASTM D 624	55.14
Compression set			
		ASTM D 395	
70°C x 70 hrs	%		32.01
100°C x 70 hrs	%		50.73
125°C x 70 hrs	%		69.08
150°C x 70 hrs	%		76.47
Ozone resistance			
		ASTM D 1149	
(50 pphm, 40°C, 20%el, 72 hrs)	-		No crack
Heat aging resistance properties *			
	Hardness change (point)	Tensile strength change (%)	Elongation at break change (%)
70°C x 70 hrs	+2	-7.49	-10.75
100°C x 70 hrs	+5	-12.26	-21.21
125°C x 70 hrs	+4	-7.61	-34.97
150°C x 70 hrs	+30	-308	-56.09

* Test method for Heat aging resistance : ASTM D 573

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