

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
<u>Compound A</u>			
Mooney viscosity (ML 1+4 @ 100°C)	-	ASTM D 1646	38.72
Specific gravity (A)	g/cm ³	ASTM D 297	1.161
Dispersion	-	-	Pass
<u>Compound B</u>			
Specific gravity (Cure)	g/cm ³	ASTM D 297	1.163
<u>Cure rheograph</u>			
		ASTM D 5289	
ML	lbf.in		3.06
MH	lbf.in		12.89
Ts2	min.sec		2.11
T90	min.sec		3.49
<u>Original properties</u>			
Hardness	Shore A	ASTM D2240A	50
Tensile strength	kgf/cm ²	ASTM D 412	136.39
Elongation at break	%	ASTM D 412	655.94
Modulus 100%	kgf/cm ²	ASTM D 412	13.84
Modulus 300%	kgf/cm ²	ASTM D 412	46.55
Tear strength	kgf/cm	ASTM D 624	45.51
<u>Compression set</u>			
		ASTM D 395	
70°C x 70 hrs	%		22.34
100°C x 70 hrs	%		53.52
125°C x 70 hrs	%		68.89
150°C x 70 hrs	%		76.08
<u>Ozone resistance</u>			
		ASTM D 1149	
(50 pphm, 40°C, 20%el, 72 hrs)	-		No crack
<u>Heat aging resistance properties *</u>			
	Hardness change (point)	Tensile strength change (%)	Elongation at break change (%)
70°C x 70 hrs	+2	-8.72	-10.18
100°C x 70 hrs	+5	-9.45	-12.12
125°C x 70 hrs	+4	-9.35	-32.66
150°C x 70 hrs	+30	-9.82	-55.01

* Test method for Heat aging resistance : ASTM D 573

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