

TECHNICAL DATA SHEET

EPDM COMPOUND HARDNESS 40 SHORE A

EPDM compound that has hardness of 40 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
Specific gravity (A)	g/cm ³	ASTM D 297	1.095
Dispersion	-	-	Pass
<u>Compound B</u>			
Specific gravity (Cure)	g/cm ³	ASTM D 297	1.099
<u>Cure rheograph</u>			
		ASTM D 5289	
ML	lbf.in		2.34
MH	lbf.in		11.62
Ts2	min.sec		2.36
T90	min.sec		4.47
<u>Original properties</u>			
Hardness	Shore A	ASTM D2240A	40
Tensile strength	kgf/cm ²	ASTM D 412	144.32
Elongation at break	%	ASTM D 412	967.88
Modulus 100%	kgf/cm ²	ASTM D 412	10.08
Modulus 300%	kgf/cm ²	ASTM D 412	29.51
Tear strength	kgf/cm	ASTM D 624	38.14
<u>Compression set</u>			
		ASTM D 395	
70°C x 70 hrs	%		23.10
100°C x 70 hrs	%		57.45
125°C x 70 hrs	%		71.35
150°C x 70 hrs	%		75.67
<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	+5.65	-25.21
100°C x 70 hrs	+5	+7.71	-27.82
125°C x 70 hrs	+4	-7.71	-41.03
150°C x 70 hrs	+30	-10.07	-52.03

* Test method for Heat aging resistance : ASTM D 573

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