

# TECHNICAL DATA SHEET

## EPDM COMPOUND HARDNESS 60 SHORE A

EPDM compound that has hardness of 60 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
<b><u>Compound A</u></b>			
Mooney viscosity (ML 1+4 @ 100°C)	-	ASTM D 1646	56.12
Specific gravity (A)	g/cm <sup>3</sup>	ASTM D 297	1.225
Dispersion	-	-	Pass
<b><u>Compound B</u></b>			
Specific gravity (Cure)	g/cm <sup>3</sup>	ASTM D 297	1.227
<b><u>Cure rheograph</u></b>			
		ASTM D 5289	
ML	lbf.in		4.49
MH	lbf.in		18.83
Ts2	min.sec		1.37
T90	min.sec		3.24
<b><u>Original properties</u></b>			
Hardness	Shore A	ASTM D2240A	63
Tensile strength	kgf/cm <sup>2</sup>	ASTM D 412	134.46
Elongation at break	%	ASTM D 412	378.32
Modulus 100%	kgf/cm <sup>2</sup>	ASTM D 412	35.51
Modulus 300%	kgf/cm <sup>2</sup>	ASTM D 412	109.75
Tear strength	kgf/cm	ASTM D 624	50.46
<b><u>Compression set</u></b>			
		ASTM D 395	
70°C x 70 hrs	%		23.92
100°C x 70 hrs	%		49.79
125°C x 70 hrs	%		70.5
150°C x 70 hrs	%		74.15
<b><u>Ozone resistance</u></b>			
		ASTM D 1149	
(50 pphm, 40°C, 20%el, 72 hrs)	-		No crack
<b><u>Heat aging resistance properties *</u></b>			
	Hardness change (point)	Tensile strength change (%)	Elongation at break change (%)
70°C x 70 hrs	+2	-0.8	-5.37
100°C x 70 hrs	+5	+8.71	-16.00
125°C x 70 hrs	+4	+8.51	-41.84
150°C x 70 hrs	+30	-5.13	-70.02

\* Test method for Heat aging resistance : ASTM D 573

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