

TECHNICAL DATA SHEET

EPDM COMPOUND HARDNESS 80 SHORE A

EPDM compound that has hardness of 80 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 compression mold.

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	80.8
Specific gravity (A)	g/cm ³	ASTM D 297	1.304
Dispersion	-	-	-
Compound B			
Specific gravity (Cure)	g/cm ³	ASTM D 297	1.306
Cure rheograph		ASTM D 5289	
ML	lbf.in		8.1
MH	lbf.in		40.57
Ts2	min.sec		0.38
T90	min.sec		3.27
Original properties			
Hardness		ASTM D2240A	82
Tensile strength	kgf/cm ²	ASTM D 412	145.82
Elongation at break	%	ASTM D 412	341.79
Modulus 100%	kgf/cm ²	ASTM D 412	45.44
Modulus 300%	kgf/cm ²	ASTM D 412	132.9
Tear strength	kgf/cm	ASTM D 624	51.85
Compression set		ASTM D 395	
70°C x 70 hrs	%		36.62
100°C x 70 hrs	%		53.97
125°C x 70 hrs	%		74.37
150°C x 70 hrs	%		81.21
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	+1	-0.47	-22.28
100°C x 70 hrs	+1	+8.59	-25.05
125°C x 70 hrs	+2	+6.32	-40.44
150°C x 70 hrs	+6	-8.12	-53.53

* Test method for Heat aging resistance : ASTM D 573

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