

Material Specification

PPI Broom Sweeper Elements

PPI NR8B01 Compound

Broom Sweeper Element profiles manufactured by Performance Polymers Innovations Inc. are extruded using the highest quality materials that are specifically compounded for this demanding application. This rubber compound features high abrasion resistant base polymers and carbon black for improved operational life.

The ASTM D2000 Line Call for the rubber compound (NR8B01) used in these Broom Sweeper Elements is:

M4AA814 A13, B13, C12, F17

This rubber compound meets or exceeds the following requirements:

Property	Unit	Required	Limit	Actual	ASTM Test Method
Tensile Strength	psi	2031	min	2738	D412
Elongation	%	200	min	261	D412
Hardness – Durometer (Shore A)	points	88	± 5	89	D2240
Heat Resistance (70 h @ 70 °C)					D573
Change in Tensile Strength	%	-25	max	-12	
Change in Elongation	%	-25	max	-18	
Change in Hardness	points	+10	max	+4	
Compression Set	%	25	max	22	D395B
Ozone Resistance (72 hrs @70°C)		No Cracks	Pass	Pass	D1171
Low Temperature Brittleness (-40 °C)		No Cracks	Pass	Pass	D2137