

Milastomer™ S-450B

Thermoplastic Vulcanizate

Mitsui Chemicals America, Inc.

Message:

Milastomer™S-450B is a thermoplastic vulcanized rubber (TPV) material. This product is available in North America and is processed by extrusion or injection molding. Milastomer™The main characteristics of the S-450B are: low hardness.

General Information	
Features	Hardness, low
Appearance	Black
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ASTM D1505

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ISO 1133
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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 48
Shaw A	46		ISO 48
Shaw A, 5 seconds	40		ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	1.10	MPa	ISO 37
Tensile Stress ² (Break)	2.60	MPa	ISO 37
Tensile Elongation ³ (Break)	360	%	ISO 37
Compression Set			ISO 815
23°C, 22 hr	11	%	ISO 815
70°C, 22 hr	23	%	ISO 815

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	Internal method

Additional Information

All tests performed according to Mitsui methods.

NOTE	
1.	500 mm/min
2.	500 mm/min
3.	500 mm/min

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