

# Nitrovin™ 457

Thermoplastic Vulcanizate

Vi-Chem Corporation

Message:

Nitrovin™ 457 is a Thermoplastic Vulcanizate (TPV) material filled with 11% mineral. It is available in North America for extrusion.

Important attributes of Nitrovin™ 457 are:

Chemical Resistant

Good Processability

Heat Resistant

Typical applications include:

Automotive

Sealing Applications

General Information			
Filler / Reinforcement	Mineral, 11% Filler by Weight		
Features	Gasoline Resistance		
	Good Colorability		
	Good Processability		
	High Heat Resistance		
	Low Compression Set		
	Oil Resistant		
Uses	Automotive Exterior Parts		
	Seals		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	70		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield)	10.9	MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	310	%	ISO 37
Tear Strength <sup>3</sup>	31	kN/m	ISO 34-1
Compression Set (100°C, 22 hr)	59	%	ISO 815
Flammability	Nominal Value	Unit	Test Method
Fogging	93	%	GM 9305P
Color Fastness <sup>4</sup>			
to light, 1240.8 kJ/m <sup>2</sup>	0.590(Black)		SAE J1885
to light, 2500 kJ/m <sup>2</sup>	0.480(Black)		SAE J1960
Weather Resistance			SAE J1976

-- 5	0.730
-- 6	0.690(Black)
NOTE	
1.	500 mm/min
2.	500 mm/min
3.	500 mm/min
4.	Interior XenonNo objectionable defects
5.	2 years ArizonaNo objectionable defects
6.	2 years FloridaNo objectionable defects

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#### Recommended distributors for this material

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