

Nitrovin™ 456

Thermoplastic Vulcanizate

Vi-Chem Corporation

Message:

Nitrovin™ 456 is a Thermoplastic Vulcanizate (TPV) material. It is available in North America for extrusion.

Important attributes of Nitrovin™ 456 are:

Chemical Resistant

Good Processability

Heat Resistant

Typical applications include:

Automotive

Sealing Applications

General Information			
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	1.23	g/cm³	ASTM D792
Humidity ¹ (80°C)	No objectionable tackiness		
Cold Flexibility ² (-30°C, 2.50 cm)	No cracks		
Fungal Resistance ³	A zone of inhibition and no fungus growth		
Pink Stain ⁴	No stain		
Volatile Loss (105°C, < 3.20 mm)	< 1.6	%	ASTM D1203
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	> 9.20	MPa	ASTM D638
Tensile Elongation (Break)	> 370	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Compression Set			ASTM D395B
70°C, 22 hr	49	%	
70°C, 300 hr	66	%	


NOTE	
1.	High temperature resistance, 168 hrs, GM9329P
2.	GM9503, 25mm mandrel
3.	GM9328P, as received, after Weather Resistance test
4.	GM9303P

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