

# PrimoPrene 67A-1000

Thermoplastic Vulcanizate

KMI Group Inc.

## Message:

### Attributes:

PrimoPrene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber.

It is ideal solution for applications requiring long term sealing performance even at elevated temperatures up to 135°C (275F).

Can be processed using conventional thermoplastic processing equipment. Suitable for injection molding, blow molding, profile and sheet extrusion applications.

PrimoPrene TPV is supplied in weatherable (UV stabilized) black.

PrimoPrene TPV is in compliance with FDA, CFR title 21 Section 177.2600 "Rubber articles intended for repeated use"; and 177.1210 "Closures with sealing Gaskets for food Containers".

### Applications:

PrimoPrene is a cost effective solution for replacing Santoprene rubber, styrenic-based TPEs, and thermoset rubbers such as EPDM, and Polychloroprene.

It is an excellent choice for applications requiring flexibility in the following markets: automotive parts, appliance, business machines, construction, consumer products, and electronics.

General Information	
Additive	Rubber 2 UV Stabilizer
Features	Food Contact Acceptable Good Colorability Good Flexibility Good Heat Seal Good UV Resistance Soft
Uses	Appliances Automotive Applications Business Equipment Construction Applications Consumer Applications Electrical/Electronic Applications Flexible Grips Handles
Agency Ratings	FDA 21 CFR 177.1210 FDA 21 CFR 177.2600
Appearance	Black
Processing Method	Extrusion Injection Molding Profile Extrusion

Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/10.0 kg)	8.0 to 15	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec	68		
Shore A, 15 sec	65		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (100% Strain, 23°C)	2.80	MPa	ASTM D412
Tensile Strength <sup>3</sup> (Yield, 23°C)	8.00	MPa	ASTM D412
Tensile Elongation <sup>4</sup> (Break, 23°C)	550	%	ASTM D412
Tear Strength <sup>5</sup> (23°C)	37.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	30	%	
125°C, 70 hr	42	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-65.0	°C	ASTM D746
Melting Temperature	159	°C	
Additional Information	Nominal Value	Unit	Test Method
Ozone Resistance <sup>6</sup>	Excellent		ASTM D1149
Injection	Nominal Value	Unit	Test Method
Drying Temperature	82.2	°C	
Drying Time	3.0	hr	
Extrusion	Nominal Value	Unit	Test Method
Drying Temperature	65.6	°C	
Drying Time	3.0	hr	

**NOTE**

1.	Procedure A
2.	500 mm/min
3.	500 mm/min
4.	500 mm/min
5.	Die C, 500 mm/min
6.	500 hr, 100 pphm O3 conc.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

**Susheng Import & Export Trading Co.,Ltd.**

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

