

# PrimoPrene 87A-4000

Thermoplastic Vulcanizate Alloy

KMI Group Inc.

## Message:

### Attributes:

PrimoPrene is a thermoplastic vulcanizate containing EPDM and PP.

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

Soft-touch feel for grips and handles used in automotive and consumer goods.

Can be processed using conventional thermoplastic processing equipment.

PrimoPrene 4000 series are naturally colorless: making them ideal for vibrant color applications.

Suitable for injection molding, profile extrusion and sheet applications.

PrimoPrene 87A-4000 is UV stabilized: meeting the most stringent automotive requirements.

### Applications:

PrimoPrene is a cost effective solution for replacing Santoprene rubber, styrenic-based TPEs, flexible PVC, 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			
Filler / Reinforcement	Polypropylene		
Additive	Rubber UV Stabilizer		
Features	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		
Appearance	Colorless		
Processing Method	Extrusion Injection Molding Profile Extrusion Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	0.960	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec	87		
Shore A, 15 sec	85		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (100% Strain, 23°C)	6.60	MPa	ASTM D412
Tensile Strength <sup>2</sup> (Yield, 23°C)	10.2	MPa	ASTM D412
Tensile Elongation <sup>3</sup> (Break, 23°C)	470	%	ASTM D412
Tear Strength <sup>4</sup> (23°C)	50.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	28	%	
125°C, 70 hr	60	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Melting Temperature	159	°C	
Additional Information	Nominal Value		Test Method
Ozone Resistance <sup>5</sup>	Excellent		ASTM D1149

**NOTE**

- |    |                           |
|----|---------------------------|
| 1. | 500 mm/min                |
| 2. | 500 mm/min                |
| 3. | 500 mm/min                |
| 4. | Die C, 500 mm/min         |
| 5. | 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

