

# PrimoPrene 70A-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 70A-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	0.940	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec	73		
Shore A, 15 sec	70		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (100% Strain, 23°C)	3.30	MPa	ASTM D412
Tensile Strength <sup>2</sup> (Yield, 23°C)	8.50	MPa	ASTM D412
Tensile Elongation <sup>3</sup> (Break, 23°C)	520	%	ASTM D412
Tear Strength <sup>4</sup> (23°C)	40.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	29	%	
125°C, 70 hr	45	%	
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.		

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