

# PrimoPrene 40D-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 40D-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 D, 5 sec	40		
Shore D, 15 sec	38		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (100% Strain, 23°C)	9.00	MPa	ASTM D412
Tensile Strength <sup>2</sup> (Yield, 23°C)	18.0	MPa	ASTM D412
Tensile Elongation <sup>3</sup> (Break, 23°C)	1100	%	ASTM D412
Tear Strength <sup>4</sup> (23°C)	82.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	42	%	
125°C, 70 hr	73	%	
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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