

# PrimoPrene 45D-1000

Thermoplastic Vulcanizate

KMI Group Inc.

Message:

Attributes:  
PrimoPrene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber.  
It is designed for applications requiring long term sealing performance even at elevated temperatures up to 135°C (275F).  
Can be processed using conventional thermoplastic processing equipment.  
There is no need for costly and energy guzzling down stream equipment for curing.  
Suitable for injection molding, blow molding, profile and sheet extrusion applications.  
PrimoPrene TPV is supplied in weatherable (UV stabilized) black.

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	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	Black
Processing Method	Extrusion
	Injection Molding
	Profile Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm <sup>3</sup>	ASTM D792

Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/10.0 kg)	10 to 18	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 5 sec	45		
Shore D, 15 sec	42		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (100% Strain, 23°C)	9.10	MPa	ASTM D412
Tensile Strength <sup>3</sup> (Yield, 23°C)	24.3	MPa	ASTM D412
Tensile Elongation <sup>4</sup> (Break, 23°C)	550	%	ASTM D412
Tear Strength <sup>5</sup> (23°C)	82.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	57	%	
125°C, 70 hr	84	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-40.0	°C	ASTM D746
Melting Temperature	159	°C	
Additional Information	Nominal Value		Test Method
Ozone Resistance <sup>6</sup>	Excellent		ASTM D1149
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	3.0	hr	
Extrusion	Nominal Value	Unit	
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.		

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