

PrimoPrene 45A-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	0.940	g/cm ³	ASTM D792

Melt Mass-Flow Rate (MFR) ¹ (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	45		
Shore A, 15 sec	42		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% Strain, 23°C)	0.950	MPa	ASTM D412
Tensile Strength ³ (Yield, 23°C)	5.20	MPa	ASTM D412
Tensile Elongation ⁴ (Break, 23°C)	560	%	ASTM D412
Tear Strength ⁵ (23°C)	12.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	26	%	
125°C, 70 hr	52	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-65.0	°C	ASTM D746
Melting Temperature	159	°C	
Additional Information	Nominal Value		Test Method
Ozone Resistance ⁶	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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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



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