PrimoPrene 87A-1000

Thermoplastic Vulcanizate

KMI Group Inc.

Message:

Attributes:
PrimoPrene TPV is a thermoplastic elastomer containing fully vulcanized EPDM rubber.
It is ideal solution 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.
There is no need for costly and energy guzzlind 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	Blow Molding
	Extrusion
	Injection Molding
	Profile Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method

Specific Gravity	0.960	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (230°C/10.0 kg)	10 to 18	g/10 min	ASTM D1238
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 [2] (100% Strain, 23°C)	6.20	MPa	ASTM D412
Tensile Strength [3] (Yield, 23°C)	16.2	MPa	ASTM D412
Tensile Elongation [4] (Break, 23°C)	540	%	ASTM D412
Tear Strength [5] (23°C)	60.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	41	%	
125°C, 70 hr	72	%	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-60.0	°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.		

Recommended distributors for this material

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