

PrimoPrene 90A-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.

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		
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/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness			ASTM D2240
Shore A, 5 sec	90		
Shore A, 15 sec	87		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain, 23°C)	7.60	MPa	ASTM D412
Tensile Strength ² (Yield, 23°C)	14.2	MPa	ASTM D412
Tensile Elongation ³ (Break, 23°C)	590	%	ASTM D412
Tear Strength ⁴ (23°C)	49.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	55	%	
125°C, 70 hr	63	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-55.0	°C	ASTM D746
Melting Temperature	159	°C	
Additional Information	Nominal Value		Test Method
Ozone Resistance ⁵	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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