

PrimoPrene 55A-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 55A-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,caps and closures for food packaging and electronics.

General Information	
Filler / Reinforcement	Polypropylene
Additive	Rubber
	UV Stabilizer
Features	Food Contact Acceptable
	Good Colorability
	Good Flexibility
	Good Heat Seal
	Good UV Resistance
	Soft
Uses	Appliances
	Automotive Applications
	Business Equipment
	Caps
	Closures
	Construction Applications
	Consumer Applications
	Electrical/Electronic Applications
	Flexible Grips
	Handles
Agency Ratings	FDA 21 CFR 177.1210
Appearance	Colorless
Processing Method	Extrusion
	Injection Molding

Profile Extrusion

Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec	55		
Shore A, 15 sec	52		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain, 23°C)	2.10	MPa	ASTM D412
Tensile Strength ² (Yield, 23°C)	4.00	MPa	ASTM D412
Tensile Elongation ³ (Break, 23°C)	450	%	ASTM D412
Tear Strength ⁴ (23°C)	23.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	22	%	
125°C, 70 hr	39	%	
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 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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