

PrimoPrene 50D-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.
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 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/cm³	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 D, 5 sec	50		
Shore D, 15 sec	48		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% Strain, 23°C)	9.40	MPa	ASTM D412
Tensile Strength ³ (Yield, 23°C)	29.0	MPa	ASTM D412
Tensile Elongation ⁴ (Break, 23°C)	650	%	ASTM D412
Tear Strength ⁵ (23°C)	97.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	69	%	
125°C, 70 hr	85	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-30.0	°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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