

PrimoPrene 40D-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 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 D, 5 sec	40		
Shore D, 15 sec	38		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% Strain, 23°C)	9.00	MPa	ASTM D412
Tensile Strength ³ (Yield, 23°C)	17.0	MPa	ASTM D412
Tensile Elongation ⁴ (Break, 23°C)	650	%	ASTM D412
Tear Strength ⁵ (23°C)	80.0	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	59	%	
125°C, 70 hr	72	%	
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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