

# Dryflex® V 50D101

Thermoplastic Vulcanizate

ELASTO

Message:

Dryflex V Thermoplastic Vulcanisate (TPV) compounds are high performance materials designed for demanding applications where improved durability, heat or fluid resistance are required.

General Information			
Features	Low compressive deformability		
	Recyclable materials		
	Workability, good		
	Good adhesion		
	Good chemical resistance		
	Fatigue resistance		
	Good weather resistance		
	acid resistance		
	Oil resistance		
Uses	Large household appliances and small household appliances		
	Electrical/Electronic Applications		
	Electrical appliances		
	Building materials		
	Architectural application field		
	Parts under the hood of a car		
	Application in Automobile Field		
	Car interior parts		
	Automotive exterior parts		
Appearance	Black		
	Available colors		
	Natural color		
Processing Method	Blow molding		
	Extrusion		
	Thermoforming		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm <sup>3</sup>	ISO 2781

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	11.0	MPa	ISO 37
Tensile Stress (Yield)	21.0	MPa	ISO 37
Tensile Elongation (Break)	790	%	ISO 37
Tear Strength <sup>1</sup>	110	kN/m	ISO 34-1
Compression Set <sup>2</sup>			ISO 815
23°C, 24 hr	55	%	ISO 815
70°C, 24 hr	58	%	ISO 815
100°C, 24 hr	65	%	ISO 815
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	3.0	hr	
Rear Temperature	160 - 190	°C	
Middle Temperature	170 - 200	°C	
Front Temperature	180 - 210	°C	
Nozzle Temperature	190 - 220	°C	
Mold Temperature	15 - 50	°C	
Injection Rate	Moderate-Fast		
Extrusion	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	160 - 190	°C	
Cylinder Zone 2 Temp.	170 - 200	°C	
Cylinder Zone 3 Temp.	180 - 200	°C	
Cylinder Zone 4 Temp.	180 - 210	°C	
Die Temperature	190 - 220	°C	
NOTE			
1.	C method: crescent sample		
2.	Type a		

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#### Recommended distributors for this material

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