

# TPSiV™ 3111-70A

Thermoplastic Silicone Vulcanizate  
Multibase, A Dow Corning Company

Message:

TPSiV™ 3111-70A is a Thermoplastic Silicone Vulcanizate (TPSiV) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of TPSiV™ 3111-70A include consumer goods, electrical/electronic applications, food contact applications, plumbing/piping/potable water and sealing applications.

Characteristics include:

- Good Adhesion
- Good Flexibility
- Heat Resistant
- Wear Resistant

General Information			
Features	Bondability		
	Good Abrasion Resistance		
	High Heat Resistance		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
Uses	Communication Applications		
	Consumer Applications		
	Seals		
	Sporting Goods		
Agency Ratings	FDA Unspecified Rating		
	NSF Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	1.0 to 3.0	%	Multiple Standards
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	70		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	15.0	MPa	ISO 37
Tensile Elongation (Break)	600	%	ISO 37
Tear Strength	45	kN/m	ISO 34-1
Compression Set (23°C, 22 hr)	20	%	ISO 815
Injection	Nominal Value	Unit	
Drying Temperature	65.0 to 80.0	°C	

Drying Time	2.0 to 4.0	hr
Rear Temperature	185 to 195	°C
Middle Temperature	190 to 200	°C
Front Temperature	200 to 215	°C
Nozzle Temperature	205 to 220	°C
Processing (Melt) Temp	215	°C
Mold Temperature	30.0 to 60.0	°C
Injection Rate	Moderate-Fast	

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#### Recommended distributors for this material

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