TPSiV™ 3451-80A NAT

Thermoplastic Silicone Vulcanizate

Multibase, A Dow Corning Company

Message:

TPSiV™ 3451-80A NAT 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.
Characteristics include:
Chemical Resistant
Wear Resistant

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Soft		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Spiral Flow [1]	28.0	cm	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	84		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2/5A/50
Break	9.10	MPa	
100% Strain	5.70	MPa	
Tensile Strain (Break)	350	%	ISO 527-2/5A/50
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	50	kN/m	ISO 34-1
Injection	**Nominal Value**	**Unit**	
Drying Temperature - Desiccant Dryer	80.0 to 100	°C	
Drying Time - Desiccant Dryer	3.0 to 6.0	hr	
Suggested Max Moisture	< 0.030	%	
Rear Temperature	180 to 190	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	205 to 215	°C	
Nozzle Temperature	210 to 220	°C	
Processing (Melt) Temp	215	°C	
Mold Temperature	10.0 to 40.0	°C	
Back Pressure	0.700 to 1.40	MPa	

Screw Speed	100 to 150	rpm
Vent Depth	0.013 to 0.025	mm
NOTE		
1.	Condition B	

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