

TPSiV™ 4100-70A

Thermoplastic Silicone Vulcanizate
Multibase, A Dow Corning Company

Message:

TPSiV® 4100-70A Thermoplastic Elastomer is a thermoplastic elastomer with superior compression set and mechanical properties with excellent bonding to Polycarbonate, ABS, and similar polar substrates.

General Information			
Features	Bondability		
	Good Abrasion Resistance		
	Low Compression Set		
	Scratch Resistant		
	Soft		
Uses	Overmolding		
	Seals		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	13	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 3.0	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	28.6	MPa	ISO 178
Flexural Stress	2.30	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	64.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.90	MPa	ISO 37
Tensile Stress (Yield)	11.4	MPa	ISO 37
Tensile Elongation (Break)	690	%	ISO 37
Tear Strength	51	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	9.0	%	
70°C, 22 hr	43	%	
Injection	Nominal Value	Unit	
Drying Temperature	65.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	165 to 175	°C	

Middle Temperature	170 to 180	°C
Front Temperature	180 to 195	°C
Nozzle Temperature	185 to 200	°C
Processing (Melt) Temp	195	°C
Mold Temperature	20.0 to 40.0	°C
Injection Rate	Moderate-Fast	

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