

TPSiV™ 4000-80A

Thermoplastic Silicone Vulcanizate
Multibase, A Dow Corning Company

Message:

TPSiV® 4000-80A Thermoplastic Elastomer is a UV stable, colorable, thermoplastic elastomer with excellent bonding to Polycarbonate, ABS, and similar polar substrates.

General Information			
Features	Bondability		
	Good Abrasion Resistance		
	Good Colorability		
	Good UV Resistance		
	Scratch Resistant		
	Soft		
Uses	Communication Applications		
	Computer Components		
	Electrical/Electronic Applications		
	Overmolding		
	Seals		
	Sporting Goods		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.10	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)	79		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	43.4	MPa	ISO 178
Flexural Stress	2.62	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	64.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.00	MPa	ISO 37
Tensile Stress (Yield)	9.70	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength	50	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	26	%	

70°C, 22 hr	73	%
Injection	Nominal Value	Unit
Drying Temperature	65.0 to 80.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	160 to 170	°C
Middle Temperature	165 to 175	°C
Front Temperature	170 to 180	°C
Nozzle Temperature	180 to 200	°C
Processing (Melt) Temp	190	°C
Mold Temperature	20.0 to 40.0	°C
Injection Rate	Moderate-Fast	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

