

TPSiV™ 4200-80A

Thermoplastic Silicone Vulcanizate
Multibase, A Dow Corning Company

Message:

TPSiV™ 4200-80A is a Thermoplastic Silicone Vulcanizate (TPSiV) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of TPSiV™ 4200-80A include engineering/industrial parts and sealing applications.

Characteristics include:

- Wear Resistant
- Chemical Resistant
- Good Adhesion
- Scratch Resistant

General Information			
Features	Bondability		
	Durable		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	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) (230°C/10.0 kg)	54	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 3.0	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	83		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	64.4	MPa	ISO 178
Flexural Stress	4.70	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	56.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	7.80	MPa	ISO 37
Tensile Stress (Yield)	15.4	MPa	ISO 37
Tensile Elongation (Break)	330	%	ISO 37
Tear Strength	60	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	17	%	

70°C, 22 hr	64	%
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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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

