

DuPont™ Vespel®

parts and shapes

Vespel® SP-202 Plaque

Vespel® SP-202 parts are conductive (<10E2 ohm) for quick elimination of static charges. They show excellent wear resistance, dimensional stability at even 450 °C, and good machinability.

Property	Test Method	Units	Value	
			Perpendicular	Parallel
Mechanical				
Tensile Strength at Break	ASTM D 638	MPa (kpsi)		
23°C (73°F)			92 (13.3)	56 (8.1)
260°C (500°F)			53 (7.7)	28 (4.1)
Elongation at Break	ASTM D 638	%		
23°C (73°F)			4.5	2.6
260°C (500°F)			5.2	2.6
Tensile Modulus	ASTM D 638	MPa (kpsi)		
23°C (73°F)			3700 (530)	2800 (402)
260°C (500°F)			2600 (378)	1800 (256)
Flexural Modulus	ASTM D 790	MPa (kpsi)		
23°C (73°F)			6.3 (911)	6.5 (947)
260°C (500°F)			4.6 (671)	4.6 (674)
Flexural Strength	ASTM D 790	MPa (kpsi)		
23°C (73°F)			159 (23)	164 (24)
260°C (500°F)			89 (13)	91 (13)
Compressive Strength	ASTM D 695	MPa (kpsi)		
23°C (73°F)			206 (29.9)	230 (33.4)
260°C (500°F)			105 (15.2)	114 (16.5)
Compressive Strain	ASTM D 695	%		
23°C (73°F)			30	26
260°C (500°F)			27	21

Review Material Safety Data Sheet and general machining guidelines, if applicable.
Test temperatures are 23°C unless otherwise stated.

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The miracles of science®

Vespe^l® SP-202 Plaque

Property	Test Method	Units	Value	
			Perpendicular	Parallel
Thermal				
CLTE 35 - 300°C (95 - 572°F)	ASTM E 831	E-6/C (E-6/F)	28 (16)	86 (47)
Electrical				
Surface Resistivity	ASTM D 991	ohm	1E1	1E-1
Volume Resistivity	ASTM D 991	ohm cm	1E-1	1E1
Other				
Specific Gravity	ASTM D 792		1.49	1.49
Hardness, Rockwell Scale E	ASTM D 785		66	51
Water Absorption Immersion 24h	ASTM D 570	%	0.23	0.23

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