STATIC CONTROL PLASTICS

VESPEL® SP-202

Conductive Polymide

*** VESPEL® is the registered trademark of*

DUPONT

PRODUCT CAPABILITIES:

· Sheet : 1/16 to 2"

PRODUCT COLORS:

● Grey

ADVANTAGES:

· Electronic Charge Removal. Vespel® SP202 Is A Conductive Plastic Grade With Surface And Volume Resistivity Values In The Range Of 10^{-1} to 10^{1} (ohm,ohm-cm).
· Vespel® SP-202 Has A Thermal Resistance To Maintain Tolerances In High Heat Applications And Through Multiple Thermal Cycles.
· Lower Wear Rates On Contact Surfaces Generate Longer Part Life And Cleaner Environments.

APPLICATIONS INCLUDE:

· Contactor Pads
· Rollers
· Guides
· Lift Pin Components

GENERAL PROPERTIES	ASTM or UL Test	VESPEL® SP-202 Typical Values Perpendicular	VESPEL® SP-202 Typical Values Parallel
PHYSICAL			
Density (g/cm³)	D792	1.49	1.49
Water Absorption, Immersion, 24 hr (%)	D570	0.23	0.23
MECHANICAL @ 73˚F			
Tensile Strength at Break (psi)	D638	13,300	8,100
Tensile Modulus (psi)	D638	530,000	402,000
Elongation at Break (%)	D638	4.5	2.6
Flexural Strength (psi)	D790	23,000	24,000
Flexural Modulus (psi)	D790	911,000	947,000
Compressive Strength (psi)	D790	29,900	33,400
Compressive Strain at Break (%)	D695	30	26
Hardness, Rockwell, Scale E	D785	66	51
MECHANICAL @ 500˚F			
Tensile Strength at Break (psi)	D638	7,700	4,100
Elongation at Break (%)	D638	5.2	2.6
Tensile Modulus (psi)	D638	378,000	256,000
Flexural Strength (psi)	D790	13,000	13,000
Flexural Modulus (psi)	D790	671,000	674,000
Compressive Strength (psi)	D695	15,200	16,500
Compressive Strain at Break (%)	D695	27	21
THERMAL			
Coeff. of Linear Thermal Expansion, 35°C -300°C, (E-6/C)	E831	28	86
Heat Deflection Temp (°F / °C) at 264 psi	D648	-	-
Max Continuous Operating Temp (°F / °C)	-	-	-
Thermal Conductivity (BTU-in/ft²-hr-°F)	C177	-	-
ELECTRICAL			
Dielectric Strength (V/mil) short time, 1/8" thick	D257	-	-
Dielectric Constant at 1 MHz	D257	-	-
Surface Resistivity (ohm)	D991	1E1	1E-1
Volume Resistivity (ohm-cm)	D991	1E-1	1E1

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.

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