

HIGH PERFORMANCE PLASTICS

VESPEL® SCP-5001

Solution for Middle-End Test Sockets



** VESPEL® is the registered trademark of

DUPONT

PRODUCT CAPABILITIES:

- Sheet: 2mm, 3mm, 4mm, 6.5mm, 9.5mm,
- Size: 70mm x 70mm

ADVANTAGES:

- Unfilled polyimide grade with similar chemical composition to VESPEL® SCP-5000
- High Mechanical Properties at High Temperature
- Excellent Dimensional Stability
- Comparable machinability to VESPEL® SCP-5000
- Excellent Electrical Insulation Properties
- Near-net blank supply with competitive cost in high volume

PRODUCT COLORS:

- Yellow-Ochre

APPLICATIONS INCLUDE:

- Middle-End Test Sockets

GENERAL PROPERTIES	ASTM or UL Test	VESPEL® SCP-5001 Typical Values
PHYSICAL		
Density (g/cm ³)	D792	-
Water Absorption, 24 hrs (%)	D570	0.20
MECHANICAL		
Tensile Strength (MPa) (2 3 d e g C)	D638	109
Tensile Elongation (%) (2 3 d e g C)	D638	3.2
Tensile Modulus (MPa) (2 3 d e g C)	D638	4796
Flexural Strength (MPa) (2 3 d e g C)	D638	158
Flexural Modulus (MPa) (2 3 d e g C)	D638	5143
Compressive Stress:		
At 10% (MPa)	D695	205
At 0.1% Offset (MPa)	D695	86
Compressive Modulus (MPa)	D695	4767
ELECTRICAL		
Dielectric Constant:		
at 1kHz/10kHz	D150	4.0
Dissipation Factor:		
at 100Hz	D150	0.005
at 1kHz/ 10kHz	D150	0.001
Dielectric Strength (KV/mm)	ISO60243-1	31.0
Volume Resistivity	D257	10 ¹⁵
Surface Resistivity	D257	10 ¹⁶

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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