



** VESPEL® is the registered trademark of

DUPONT

PRODUCT CAPABILITIES:

STOCK SHAPES

SCP-5000

- Sheet : 1.5"
- Rod : 0.25" – 2.75"

SEK-3000

- Sheet : 1, 3, 5, 7, 10mm

ADVANTAGES:

- Superior Structural & Mechanical Strength
- Excellent Dimensional Stability
- Good Electrical Properties
- Easy Machinability
- Extremely Low Outgassing
- Excellent Material Durability And Wear Resistance
- High Resistance To Heat
- Low Moisture Absorption

PRODUCT COLORS:

- Chestnut
- Black

APPLICATIONS INCLUDE:

- Seals
- Valve Seats
- Test Sockets
- Lift Pin Components

GENERAL PROPERTIES	ASTM or UL Test	SCP-5000 Typical Values	SEK-3000 Typical Values
PHYSICAL			
Density (g/cm ³)	D792	1.43	1.44
Water Absorption, Immersion, 24 hr (%)	D570	0.08	0.13
MECHANICAL			
Tensile Strength @ 260°C (MPa)	D638	62	103
Tensile Elongation @ 260°C (%)	D638	20 & Above	47.0
Flexural Strength @ 260°C (MPa)	D790	97	96
Flexural Modulus @ 260°C (MPa)	D790	3,000	3,400
Compressive Modulus @ 23°C (MPa)	D695	9,200	-
Izod Impact Strength, Notched @ 23°C (J/m)	D256	63.6	622
Izod Impact Strength, Un-Notched @ 23°C (J/m)	D256	-	No Break
Hardness, Rockwell, Scale E	D785	95	-
THERMAL			
Coeff. of Thermal Expansion (m/m/°C)	D696	44 x 10 ⁻⁶	121 x 10 ⁻⁶
Thermal Conductivity (W/mK)	-	-	0.225
ELECTRICAL			
Dielectric Constant, (10 ⁴ Hz @ 23°C)	D150	3.3	3.1
Dielectric Factor, (10 ⁴ Hz @ 23°C)	D150	1.0	3.5
Surface Resistivity at 23°C (Ohm/sq)	D257	10 ¹⁵	10 ¹⁷
Volume Resistivity at 23°C (Ohm-m)	D257	10 ¹⁴	10 ¹⁴

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.