RONCELLI PLASTICS
FAST | CLEAN | PRECISE

Typical Properties of

Vespel® SP-211

Polyimide with 15% Graphite and 10% PTFE Fillers

Process: Extruded / Direct Formed

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.55
Tensile Strength	D638	psi	6,500
Tensile Modulus	D638	psi	N / A
Elongation	D638	%	3.5
Flexural Strength	D790	psi	10,000
Flexural Modulus	D790	psi	450,000
Compressive Strength	D695	psi	14,800
Compressive Modulus	D695	psi	300,000
Hardness, Rockwell	D785	--	M75
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	N / A
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.12
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	3.0×10^{-5}
Continuous Use Temperature	--	°F	550
Heat Deflection Temperature	D648	°F	680
Glass Transition Temperature	D3418	°F	615
Melting Point	D3418	°F	N / A
Thermal Conductivity	E1530-11	BTU in/hr ft² °F	5.3
Dielectric Strength	D149	Volts/mil	N / A
Surface Resistivity	EOS/ESD 511.11	ohm/square	N / A
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.21
Water Absorption, Saturation	D570	% by weight	0.49
Limiting PV (4:1 Safety Factor)	--	--	50,000
K-Factor	--	--	N / A
FDA Compliance	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.