RONCELLI PLASTICS
FAST | CLEAN | PRECISE

Typical Properties of

Duratron® D7000

Unfilled Polyimide

Process: Compression Molded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.37
Tensile Strength	D638	psi	17,500
Tensile Modulus	D638	psi	540,000
Elongation	D638	%	6
Flexural Strength	D790	psi	25,000
Flexural Modulus	D790	psi	550,000
Compressive Strength	D695	psi	27,000
Compressive Modulus	D695	psi	380,000
Hardness, Rockwell	D785	--	R128
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	1
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.29
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	2.25×10^{-5}
Continuous Use Temperature	--	°F	500
Heat Deflection Temperature	D648	°F	670
Glass Transition Temperature	D3418	°F	690
Melting Point	D3418	°F	N / A
Thermal Conductivity	E1530-11	BTU in/hr ft² °F	1.5
Dielectric Strength	D149	Volts/mil	395
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{13}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.7
Water Absorption, Saturation	D570	% by weight	3.8
Limiting PV (4:1 Safety Factor)	--	--	15,000
K-Factor	--	--	150
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.