



Typical Properties of

Bearing Grade PBT

Polybutylene Terephthalate with PTFE Filler

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.36
Tensile Strength	D638	psi	7,200
Tensile Modulus	D638	psi	380,000
Elongation	D638	%	40
Flexural Strength	D790	psi	10,600
Flexural Modulus	D790	psi	390,000
Compressive Strength	D695	psi	11,000
Compressive Modulus	D695	psi	N / A
Hardness, Rockwell	D785	--	R110
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	0.7
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.2
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	5.0 x 10 ⁻⁵
Continuous Use Temperature	--	°F	200
Heat Deflection Temperature	D648	°F	130
Glass Transition Temperature	D3418	°F	125
Melting Point	D3418	°F	420
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	N / A
Dielectric Strength	D149	Volts/mil	N / A
Surface Resistivity	EOS/ESD 511.11	ohm/square	N / A
Flammability	UL94	--	HB
Water Absorption, 24 hrs.	D570	% by weight	0.07
Water Absorption, Saturation	D570	% by weight	0.5
Limiting PV (4:1 Safety Factor)	--	--	10,000
K-Factor	--	--	58
FDA Compliance	--	--	Yes

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.