RONCELLI PLASTICS
FAST | CLEAN | PRECISE

Typical Properties of

Glass Filled PEEK

Polyetheretherketone with 30% Glass Fiber Reinforcement

Process: Compression Molded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.65
Tensile Strength	D638	psi	7,400
Tensile Modulus	D638	psi	850,000
Elongation	D638	%	1
Flexural Strength	D790	psi	12,000
Flexural Modulus	D790	psi	900,000
Compressive Strength	D695	psi	19,000
Compressive Modulus	D695	psi	500,000
Hardness, Rockwell	D785	--	M103 (R124)
Hardness Durometer	--	--	D86
Izod Impact (notched)	D256	ft. lb of notch	1
Coeff. of Friction (Dynamic)	--	dry v.s steel	N / A
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	1.4×10^{-5}
Continuous Use Temperature	--	°F	480
Heat Deflection Temperature	D648	°F	450
Glass Transition Temperature	D3418	°F	290
Melting Point	D3418	°F	644
Thermal Conductivity	E1530-11	BTU in/hr ft² °F	2.98
Dielectric Strength	D149	Volts/mil	550
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{13}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.15
Water Absorption, Saturation	D570	% by weight	0.5
Limiting PV (4:1 Safety Factor)	--	--	N / A
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.