

G-PAEK™ 1400G

PEK

Gharda Plastics Limited

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.01	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.013	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data	Value	Unit	Test Standard
Tensile Modulus	4300	MPa	ASTM D 638
Tensile Strength	80	MPa	ASTM D 638
Elongation at Break	3.5	%	ASTM D 638
Flexural Modulus	4500	MPa	ASTM D 790
Flexural Strength	115	MPa	ASTM D 790
Rockwell Hardness	M 103	-	ASTM D 785
Shore D Hardness	86	-	ASTM D 2240
Izod Impact notched, 1/8 in	13	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ASTM Data	Value	Unit	Test Standard
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
DTUL @ 264 psi	167	°C	ASTM D 648
Melting Temperature	372	°C	ASTM D 3418
Glass Transition Temperature	152	°C	ASTM E 1356
Electrical properties			
ASTM Data	Value	Unit	Test Standard
Dielectric Strength, Short Time	14	kV/mm	ASTM D 149
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Arc Resistance	175	s	ASTM D 495
Other properties			
Value	Unit	Test Standard	
Density	1300	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Delivery form

Granules

Special Characteristics

Flame retardant

Features

Ductile

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa