

**G-PAEK™ 1200G**

PEK

Gharda Plastics Limited

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.01	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.013	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Modulus	4200	MPa	ASTM D 638
Tensile Strength	110	MPa	ASTM D 638
Elongation at Break	13	%	ASTM D 638
Flexural Modulus	4100	MPa	ASTM D 790
Flexural Strength	185	MPa	ASTM D 790
Rockwell Hardness	M 103	-	ASTM D 785
Shore D Hardness	86	-	ASTM D 2240
Izod Impact notched, 1/8 in	60	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
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
<b>Electrical properties</b>			
<b>ASTM Data</b>			
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
<b>Other properties</b>			
Density	1300	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding

**Delivery form**

Granules

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

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