

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0011	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.004	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	8000	MPa	ISO 527
Stress at break	105	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus, 23°C	7100	MPa	ISO 178
Flexural strength	160	MPa	ISO 178
Charpy impact strength, +23°C	35	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	12	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Modulus	7950	MPa	ASTM D 638
Tensile Strength at Break	108	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Compressive Strength	130	MPa	ASTM D 695
Flexural Modulus	7260	MPa	ASTM D 790
Flexural Strength	162	MPa	ASTM D 790
Rockwell Hardness	M 92	-	ASTM D 785
Izod Impact notched, 1/8 in	120	J/m	ASTM D 256
Izod Impact notched, 1/4 in	130	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	148	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	151	°C	ISO 75-1/-2
Vicat softening temperature, B	153	°C	ISO 306
Coeff. of linear therm. expansion, parallel	20	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	20	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	56	E-6/K	ASTM D 696
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	3.5	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.5	-	IEC 62631-2-1
Dissipation factor, 100Hz	10	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	90	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	35	kV/mm	IEC 60243-1
Comparative tracking index	175	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	30	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.0008	-	ASTM D 150
Dissipation Factor, 1 MHz	0.009	-	ASTM D 150
Dielectric Constant, 60 Hz	3.51	-	ASTM D 150
Dielectric Constant, 1 MHz	3.41	-	ASTM D 150
Volume Resistivity	1E16	Ohm*cm	ASTM D 257
Arc Resistance	100	s	ASTM D 495

**Panlite® G-3430R**

PC-GF30

Teijin Chemicals Ltd.

Other properties	Value	Unit	Test Standard
Density	1430	kg/m <sup>3</sup>	ISO 1183
Water Absorption, Equilibrium	0.12	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	>5	h	-
Melt temperature	290 - 320	°C	-
Mold temperature	80 - 120	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Features**

Creep Resistance

**Applications**

Electrical and Electronical

**Regional Availability**

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