

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	11700 / 10500	MPa	ISO 527
^[C] Stress at break	174 / 137	MPa	ISO 527
^[C] Strain at break	2 / 2	%	ISO 527
Flexural modulus, 23°C	10300 / 8700	MPa	ISO 178
Flexural strength	259 / 188	MPa	ISO 178
^[C] Charpy impact strength, +23°C	50 / 52	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 10	kJ/m ²	ISO 179/1eA
Rockwell hardness	M 100	-	ISO 2039-2
ASTM Data			
Tensile Strength	167 / 142	MPa	ASTM D 638
Elongation at Break	2.5 / 3.5	%	ASTM D 638
Flexural Modulus	10800 / 8300	MPa	ASTM D 790
Flexural Strength	250 / 221	MPa	ASTM D 790
Rockwell Hardness	M 100 / M 60	-	ASTM D 785
Taber Abrasion Resistance	29	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	88 / 98	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	245 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	262 / *	°C	ISO 75-1/-2
^[C] Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Yellow Card available	yes / *	-	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	3	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.75	mm	-
Coefficient of Thermal Expansion, MD	30	E-6/K	ASTM D 696
DTUL @ 66 psi	260	°C	ASTM D 648
DTUL @ 264 psi	252	°C	ASTM D 648

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	28 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	275 / -	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	28 / -	kV/mm	ASTM D 149
Volume Resistivity	1E15 / -	Ohm*cm	ASTM D 257

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	0.8 / *	%	Sim. to ISO 62
^[C] Density	1650 / -	kg/m ³	ISO 1183
Density	1650	kg/m ³	ASTM D 792

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2 - 3	h	-

LEONA™ FG173

PA66-GF30

Asahi Kasei

Melt temperature	270 - 290	°C	-
Mold temperature	75 - 85	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

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