LEONA™ 13G15

PA66-GF15 — Asahi Kasei

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**5800 / 3600**	MPa	ISO 527
[C] Stress at break	**107 / 73**	MPa	ISO 527
[C] Strain at break	**2.5 / 11**	%	ISO 527
Flexural modulus, 23°C	**4800 / 3300**	MPa	ISO 178
Flexural strength	**162 / 116**	MPa	ISO 178
[C] Charpy impact strength, +23°C	**26 / 38**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**6 / 5**	kJ/m²	ISO 179/1eA
Rockwell hardness	**R 120**	-	ISO 2039-2
ASTM Data			
Tensile Strength	**108 / 79**	MPa	ASTM D 638
Elongation at Break	**2.5 / 8**	%	ASTM D 638
Flexural Modulus	**4900 / 2500**	MPa	ASTM D 790
Flexural Strength	**167 / 108**	MPa	ASTM D 790
Rockwell Hardness	**M 94 / M 71**	-	ASTM D 785
Taber Abrasion Resistance	**9**	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	**49 / 59**	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**235 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**260 / ***	°C	ISO 75-1/-2
[C] Burning Behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-
Yellow Card available	**yes / ***	-	-
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Thickness tested	**0.75**	mm	-
Coefficient of Thermal Expansion, MD	**40**	E-6/K	ASTM D 696
DTUL @ 66 psi	**258**	°C	ASTM D 648
DTUL @ 264 psi	**240**	°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	*** / 1E15**	Ohm	IEC 62631-3-2
[C] Electric strength	**26 / -**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**600 / -**	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	**26 / -**	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	**2.1 / ***	%	Sim. to ISO 62
[C] Density	**1250 / -**	kg/m³	ISO 1183
Density	**1250**	kg/m³	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	-
Melt temperature	**275 - 295**	°C	-
Mold temperature	**75 - 85**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Features
Creep Resistance, Fatigue Resistance

Applications
Automotive

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