LEONA™ 1402S

PA66 — Asahi Kasei

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**3000 / 1200**	MPa	ISO 527
[C] Yield stress	**82 / 52**	MPa	ISO 527
[C] Yield strain	**4 / 24**	%	ISO 527
Flexural modulus, 23°C	**2700 / 1100**	MPa	ISO 178
Flexural strength	**113 / 42**	MPa	ISO 178
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**6 / 15**	kJ/m²	ISO 179/1eA
Rockwell hardness	**R 120**	-	ISO 2039-2
ASTM Data			
Tensile Strength	**79 / 57**	MPa	ASTM D 638
Elongation at Break	**50 / 250**	%	ASTM D 638
Flexural Modulus	**2800 / 1200**	MPa	ASTM D 790
Flexural Strength	**118 / 54**	MPa	ASTM D 790
Rockwell Hardness	**M 80 / M 55**	-	ASTM D 785
Taber Abrasion Resistance	**7**	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	**39 / 147**	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**70 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**190 / ***	°C	ISO 75-1/-2
[C] Burning Behav. at thickness h	**V-2 / ***	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-2**	-	UL 94
Thickness tested	**0.75**	mm	-
Coefficient of Thermal Expansion, MD	**80**	E-6/K	ASTM D 696
DTUL @ 66 psi	**230**	°C	ASTM D 648
DTUL @ 264 psi	**70**	°C	ASTM D 648
Limiting Oxygen Index	**26**	%	ASTM D 2863

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E12 / -**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	*** / 1E13**	Ohm	IEC 62631-3-2
[C] Electric strength	**20 / -**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**525 / -**	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	**20 / -**	kV/mm	ASTM D 149
Volume Resistivity	**1E14 / -**	Ohm*cm	ASTM D 257

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Humidity absorption	**2.5 / ***	%	Sim. to ISO 62
[C] Density	**1140 / -**	kg/m³	ISO 1183
Density	**1140**	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	**270 - 290**	°C	-
Mold temperature	**75 - 85**	°C	-

Characteristics

Processing
Injection Molding, Wire/Cable Extrusion

Delivery form
Pellets

Special Characteristics
Heat stabilized or stable to heat

Applications
Automotive

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