

LEONA™ SG106

Asahi Kasei Corporation - Polyamide 66 + PA 6I

General Information

General			
Material Status	• Commercial: Active ¹		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Filler / Reinforcement	• Glass Fiber, 60% Filler by Weight		
Features	• Humidity Independent	• Pleasing Surface Appearance	
Uses	• Automotive Applications	• Automotive Interior Parts	• Industrial Applications
Automotive Specifications	• VOLKSWAGEN PV 3900 plaque/60degree B3:3		
Part Marking Code (ISO 11469)	• >PA66+6I-GF60<		

Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.72	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.0	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	3.05E+6	3.05E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	40600	34800	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	2.5	%	ISO 527-2
Flexural Modulus (73°F)	2.90E+6	2.76E+6	psi	ISO 178
Flexural Stress (73°F)	58000	55100	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.1	8.1	ft·lb/in ²	ISO 179
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	102	99		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	464	--	°F	ISO 75-2/A
CLTE - Flow (-22 to 266°F)	5.6E-6	--	in/in/°F	ASTM D696
CLTE - Transverse (-22 to 266°F)	4.2E-5	--	in/in/°F	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	910	--	V/mil	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112

Processing Information

Injection	Dry Unit
Drying Temperature - Vacuum Dryer	176 to 194 °F
Drying Time - Vacuum Dryer	2.0 to 3.0 hr
Processing (Melt) Temp	536 to 572 °F
Mold Temperature	212 to 248 °F

Notes

¹ All data is provisional.

² Typical properties: these are not to be construed as specifications.

