

LEONA™ 14G50 *33D8

Asahi Kasei Corporation - Polyamide 66

General Information
General

Material Status	• Commercial: Active ¹	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Heat Stabilized	
Uses	• Automotive Applications • Automotive Under the Hood	• Electrical/Electronic Applications • Structural Parts
Part Marking Code (ISO 11469)	• >PA66-GF50<	

Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.3	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	2.47E+6	1.74E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	35700	25700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	4.0	%	ISO 527-2
Flexural Modulus (73°F)	2.28E+6	1.75E+6	psi	ISO 178
Flexural Stress (73°F)	56100	41200	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.6	10	ft-lb/in ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	500	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	487	--	°F	ISO 75-2/A
CLTE - Flow	1.1E-5	--	in/in/°F	ASTM D696
CLTE - Transverse	3.3E-5	--	in/in/°F	ASTM D696
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.030 in)	HB	--		UL 94

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	527 to 563 °F
Mold Temperature	167 to 185 °F

Notes

¹ * is an optional alphabet which differs depending on production location.
All data is provisional.

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

