

LEONA™ 54G33

Asahi Kasei Corporation - Polyamide 66 + PA 6

General Information

General	
Material Status	Commercial: Active
Availability	- Africa & Middle East - Europe - Asia Pacific - North America
Filler / Reinforcement	Glass Fiber, 33% Filler by Weight
Features	Pleasing Surface Appearance
Uses	- Automotive Applications - Industrial Applications - Fabrics - Structural Parts
Part Marking Code (ISO 11469)	>PA66+6-GF33<

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.39	--		ASTM D792
Density	1.39	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.9	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.41E+6	885000	psi	ISO 527-1
Tensile Strength	26300	17100	psi	ASTM D638
Tensile Stress (Break, 73°F)	26500	16400	psi	ISO 527-2
Tensile Elongation (Break)	3.0	7.0	%	ASTM D638
Tensile Strain (Break, 73°F)	4.0	9.0	%	ISO 527-2
Flexural Modulus	1.32E+6	725000	psi	ASTM D790
Flexural Modulus (73°F)	1.31E+6	769000	psi	ISO 178
Flexural Strength	41900	24200	psi	ASTM D790
Flexural Stress (73°F)	39200	23900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.7	9.0	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength	47	47	ft·lb/in ²	ISO 179
Notched Izod Impact	2.6	3.7	ft·lb/in	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	93	68		
R-Scale	120	110		
Rockwell Hardness				ISO 2039-2
M-Scale	93	68		
R-Scale	120	110		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	464	--	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	446	--	°F	ISO 75-2/A
CLTE - Flow	1.7E-5	--	in/in/°F	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	ASTM D257



Surface Resistivity	1.0E+15	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	ASTM D257
Volume Resistivity (73°F)	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength	790	--	V/mil	ASTM D149
Electric Strength	790	--	V/mil	IEC 60243-1
Comparative Tracking Index (0.118 in)	600	--	V	IEC 60112
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			518 to 554	°F
Mold Temperature			167 to 185	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

