

**LEONA™ 14G43**

Asahi Kasei Corporation - Polyamide 66

**General Information**

General	
Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Glass Fiber, 43% Filler by Weight</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Heat Stabilizer</li> </ul>
Features	<ul style="list-style-type: none"> <li>Heat Stabilized</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Automotive Under the Hood</li> <li>Electrical/Electronic Applications</li> <li>Structural Parts</li> </ul>
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> <li>&gt;PA66-GF43&lt;</li> </ul>

**Properties<sup>1</sup>**

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.50	--		ASTM D792
Density	1.50	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.4	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	2.16E+6	1.67E+6	psi	ISO 527-1
Tensile Strength	33400	23200	psi	ASTM D638
Tensile Stress (Break, 73°F)	32100	23200	psi	ISO 527-2
Tensile Elongation (Break)	2.5	4.0	%	ASTM D638
Tensile Strain (Break, 73°F)	2.0	4.0	%	ISO 527-2
Flexural Modulus	1.89E+6	1.38E+6	psi	ASTM D790
Flexural Modulus (73°F)	1.90E+6	1.54E+6	psi	ISO 178
Flexural Strength	52200	36300	psi	ASTM D790
Flexural Stress (73°F)	51100	37900	psi	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	19.0	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.7	9.5	ft·lb/in <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break	48 ft·lb/in <sup>2</sup>		ISO 179
Notched Izod Impact	2.6	--	ft·lb/in	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	95	80		
R-Scale	118	--		
Rockwell Hardness				ISO 2039-2
M-Scale	95	80		
R-Scale	118	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	500	--	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	500	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	482	--	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	491	--	°F	ISO 75-2/A
CLTE - Flow	1.1E-5	--	in/in/°F	ASTM D696



Thermal Conductivity	2.8	--	Btu·in/hr/ft <sup>2</sup> /°F	
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.030 in)	HB	--	UL 94	

### Processing Information

<b>Injection</b>	<b>Dry Unit</b>			
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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

