

Leona™ 54G43

Asahi Kasei Corporation - Polyamide 66 + PA 6

General Information

General			
Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight		
Features	• High Stiffness	• High Strength	• Pleasing Surface Appearance
Uses	• Automotive Applications • Fabrics	• Industrial Applications • Structural Parts	
Part Marking Code (ISO11469) (ISO 11469)	• >PA66+6-GF43<		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.50	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	1.6	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	12200	7700	MPa	ISO 527-1
Tensile Stress				
Break, 23°C	200	131	MPa	ISO 527-2
--	186	132	MPa	ASTM D638
Tensile Elongation				
Break	3.0	4.0	%	ASTM D638
Break, 23°C	4.0	7.5	%	ISO 527-2
Flexural Modulus				
--	11000	5900	MPa	ASTM D790
23°C	10600	7000	MPa	ISO 178
Flexural Strength				
--	304	177	MPa	ASTM D790
23°C	290	191	MPa	ISO 178



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Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	21	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	99	110	kJ/m ²	ISO 179
Notched Izod Impact	150	230	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785 ISO 2039-2
M-Scale	93	--		
R-Scale	118	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	250	--	°C	ASTM D648
0.45 MPa, Unannealed	245	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ASTM D648
1.8 MPa, Unannealed	230	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	ASTM D257 IEC 60093
Volume Resistivity				
--	1.0E+15	--	ohms·cm	ASTM D257
23°C	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength	32	--	kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	600	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	HB	--		UL 94

Notes

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

