

Leona™ 90G50

Asahi Kasei Corporation - Polyamide 66/6I Copolymer

General Information

General

Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight	
Features	• High Flow • High Stiffness	• High Strength • Pleasing Surface Appearance
Uses	• Automotive Applications • Fabrics	• Industrial Applications • Structural Parts
Part Marking Code (ISO11469) (ISO 11469)	• >PA66/6I-GF50<	

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.58	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	1.2	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	18000	17000	MPa	ISO 527-1
Tensile Stress				
Break, 23°C	250	200	MPa	ISO 527-2
--	235	196	MPa	ASTM D638
Tensile Elongation				
Break	2.5	3.0	%	ASTM D638
Break, 23°C	2.0	3.0	%	ISO 527-2
Flexural Modulus				
--	15500	12100	MPa	ASTM D790
23°C	14200	12000	MPa	ISO 178
Flexural Strength				
--	373	304	MPa	ASTM D790
23°C	355	239	MPa	ISO 178



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Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	16	16	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	88	84	kJ/m²	ISO 179
Notched Izod Impact	130	130	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				
M-Scale	90	--		ASTM D785
R-Scale	120	--		ASTM D785 ISO 2039-2
M-Scale	100	--		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	240	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	225	--	°C	ASTM D648 ISO 75-2/A
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
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.

