

Leona™ 91G60

Asahi Kasei Corporation - Polyamide 66/6I Copolymer

General Information

General			
Filler / Reinforcement	• Milled Glass Fiber, 60% Filler by Weight		
Features	• High Flow • High Stiffness	• High Strength • Pleasing Surface Appearance	• UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Industrial Applications • Windows & Doors	
Automotive Specifications	• GM GMW15702 ¹		
Part Marking Code (ISO11469) (ISO 11469)	• >PA66/6I-(GF+MD)60<		

ASTM & ISO Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.72	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	1.0	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	17500	16400	MPa	ISO 527-1
Tensile Stress				
Break, 23°C	173	142	MPa	ISO 527-2
--	183	150	MPa	ASTM D638
Tensile Elongation				
Break	3.3	7.6	%	ASTM D638
Break, 23°C	3.0	5.4	%	ISO 527-2
Flexural Modulus				
--	16200	15500	MPa	ASTM D790
23°C	16400	15700	MPa	ISO 178
Flexural Strength				
--	267	246	MPa	ASTM D790
23°C	255	235	MPa	ISO 178



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Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	6.1	kJ/m²	ISO 179
Notched Izod Impact	63	64	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785 ISO 2039-2
M-Scale	95	88		
R-Scale	120	117		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	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 GMW15702-110047
- ² Typical properties: these are not to be construed as specifications.

