

Leona™ 91G55

Asahi Kasei Corporation - Polyamide 66/6I Copolymer

General Information

General			
Filler / Reinforcement	• Milled Glass Fiber, 55% 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	
Part Marking Code (ISO11469) (ISO 11469)	• >PA66/6I-(GF+MD)55<		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.68	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage				Internal Method
Across Flow	1.0	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	15000	14000	MPa	ISO 527-1
Tensile Stress				
Break, 23°C	180	150	MPa	ISO 527-2
--	191	159	MPa	ASTM D638
Tensile Elongation				
Break	4.0	6.0	%	ASTM D638
Break, 23°C	3.0	4.0	%	ISO 527-2
Flexural Modulus				
--	13900	11900	MPa	ASTM D790
23°C	14000	12000	MPa	ISO 178
Flexural Strength				
--	262	231	MPa	ASTM D790
23°C	250	220	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	6.0	kJ/m ²	ISO 179
Notched Izod Impact	54	63	J/m	ASTM D256



Leona™ 91G55

Asahi Kasei Corporation - Polyamide 66/6I Copolymer

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	102	--		ISO 2039-2
R-Scale	120	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	220	--	°C	

Notes

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

