

Leona™ 90G55

Asahi Kasei Corporation - Polyamide 66/6I Copolymer

General Information

General			
Filler / Reinforcement	• Glass Fiber, 55% Filler by Weight		
Features	• Good Stiffness • Good Strength	• High Flow • Pleasing Surface Appearance	• UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Industrial Applications • Windows & Doors	
Automotive Specifications	• CHRYSLER MS-DB-41 ¹		
Part Marking Code (ISO11469) (ISO 11469)	• >PA66/6I-GF55<		

ASTM & ISO Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.64	--	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	--	1.1	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	18600	14800	MPa	ISO 527-1
Tensile Stress				
Break, 23°C	232	163	MPa	ISO 527-2
--	221	181	MPa	ASTM D638
Tensile Elongation				
Break	2.0	3.0	%	ASTM D638
Break, 23°C	2.0	3.0	%	ISO 527-2
Flexural Modulus				
--	15700	12700	MPa	ASTM D790
23°C	15400	12300	MPa	ISO 178
Flexural Strength				
--	348	284	MPa	ASTM D790
23°C	394	269	MPa	ISO 178



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Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	13	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	82	71	kJ/m ²	ISO 179
Notched Izod Impact	110	120	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785 ISO 2039-2
M-Scale	95	88		
R-Scale	120	115		
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
Specific Heat	1930	--	J/kg/°C	
Thermal Conductivity	0.30	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	ASTM D257 IEC 60093
Dielectric Strength	28	--	kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	450	--	V	

Notes

¹ CPN 4413

² Typical properties: these are not to be construed as specifications.

