

Leona™ 90G55

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 90G55 is a Polyamide 66 (Nylon 66) product filled with 55% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 90G55 include automotive, construction applications and industrial applications.

Characteristics include:

Good Aesthetics

Good Stiffness

Good UV Resistance

High Flow

General Information	
UL YellowCard	E48285-101403448
Filler / Reinforcement	Glass Fiber,55% Filler by Weight
Features	Good Stiffness
	Good Strength
	Good UV Resistance
	High Flow
	Pleasing Surface Appearance
Uses	Automotive Applications
	Automotive Exterior Parts
	Industrial Applications
	Windows & Doors

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.64	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Water Absorption				
Saturation, 23°C	--	1.1	%	
Equilibrium, 23°C, 50% RH	--	1.1	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	95	88		
R-Scale	120	115		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	18600	14800	MPa	ISO 527-2
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
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
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
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 (3.00 mm)	450	--	V	IEC 60112

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