

Leona™ 90G60

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 90G60 is a Polyamide 66 (Nylon 66) product filled with 60% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 90G60 include automotive, construction applications and industrial applications.

Characteristics include:

- Good Aesthetics
- Good Stiffness
- Good UV Resistance
- High Flow

General Information	
Filler / Reinforcement	Glass Fiber,60% 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	1.71	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Water Absorption				
Saturation, 23°C	--	1.0	%	
Equilibrium, 23°C, 50% RH	--	1.0	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	95	88		
R-Scale	120	117		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	18200	13700	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	189	138	MPa	ISO 527-2

--	190	148	MPa	ASTM D638
Tensile Elongation				
Break	2.0	3.0	%	ASTM D638
Break, 23°C	2.0	3.0	%	ISO 527-2
Flexural Modulus				
--	16000	12900	MPa	ASTM D790
23°C	15800	12200	MPa	ISO 178
Flexural Strength				
--	300	234	MPa	ASTM D790
23°C	324	210	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	56	54	kJ/m ²	ISO 179
Notched Izod Impact	95	100	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	230	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	225	--	°C	ASTM D648
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Specific Heat	1840	--	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)	475	--	V	IEC 60112

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