

Leona™ 91G60

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 91G60 is a Polyamide 66 (Nylon 66) product filled with 60% milled glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 91G60 include automotive, construction applications and industrial applications.

Characteristics include:

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

General Information	
Filler / Reinforcement	Milled Glass Fiber,60% Filler by Weight
Features	Good UV Resistance
	High Flow
	High Stiffness
	High Strength
	Pleasing Surface Appearance
Uses	Automotive Applications
	Automotive Exterior Parts
	Industrial Applications
	Windows & Doors

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.72	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.60	--	%	
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)	17500	16400	MPa	ISO 527-2
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
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	6.1	kJ/m ²	ISO 179
Notched Izod Impact	63	64	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
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		Test Method
Flame Rating (0.750 mm)	HB	--		UL 94

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