

Leona™ 90G50

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 90G50 is a Polyamide 66 (Nylon 66) product filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 90G50 include automotive, engineering/industrial parts, fabrics/fibers and industrial applications.

Characteristics include:

- Flame Rated
- Good Aesthetics
- High Flow
- High Stiffness
- High Strength

General Information	
UL YellowCard	E48285-240900
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Features	High Flow
	High Stiffness
	High Strength
	Pleasing Surface Appearance
Uses	Automotive Applications
	Fabrics
	Industrial Applications
	Structural Parts

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.58	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Water Absorption				
Saturation, 23°C	--	1.2	%	
Equilibrium, 23°C, 50% RH	--	1.2	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				
M-Scale	90	--		ASTM D785
R-Scale	120	--		ASTM D785, ISO 2039-2
M-Scale	100	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	18000	17000	MPa	ISO 527-2
Tensile Stress				

Break, 23°C	250	200	MPa	ISO 527-2
--	235	196	MPa	ASTM D638
Tensile Elongation				
Break	2.5	3.0	%	ASTM D638
Break, 23°C	2.0	3.0	%	ISO 527-2
Flexural Modulus				
--	15500	12100	MPa	ASTM D790
23°C	14200	12000	MPa	ISO 178
Flexural Strength				
--	373	304	MPa	ASTM D790
23°C	355	239	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	16	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	88	84	kJ/m ²	ISO 179
Notched Izod Impact	130	130	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
Flammability	Dry	Conditioned		Test Method
Flame Rating (0.750 mm)	HB	--		UL 94

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