

Leona™ 13G50

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 13G50 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™ 13G50 include automotive, electrical/electronic applications and engineering/industrial parts.

Characteristics include:

Flame Rated

Creep Resistant

Fatigue Resistant

High Stiffness

High Strength

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Features	Fatigue Resistant
	Good Creep Resistance
	High Stiffness
	High Strength
Uses	Automotive Applications
	Automotive Under the Hood
	Electrical/Electronic 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	0.70	--	%	
Flow	0.40	--	%	
Water Absorption				
Saturation, 23°C	--	1.3	%	
Equilibrium, 23°C, 50% RH	--	1.3	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	95	80		
R-Scale	118	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16900	13000	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	237	183	MPa	ISO 527-2
--	235	170	MPa	ASTM D638

Tensile Elongation				
Break	2.5	4.0	%	ASTM D638
Break, 23°C	2.0	4.0	%	ISO 527-2
Flexural Modulus				
--	14500	9800	MPa	ASTM D790
23°C	13600	11000	MPa	ISO 178
Flexural Strength				
--	390	280	MPa	ASTM D790
23°C	371	269	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	22.0	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	21	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break	95 kJ/m ²		ISO 179
Notched Izod Impact	140	190	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	260	--	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ASTM D648
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	ASTM D257, IEC 60093
Volume Resistivity				
--	1.0E+15	--	ohms·cm	ASTM D257
23°C	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength	21	--	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index (3.00 mm)	525	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	HB	--		UL 94

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