

Leona™ 1300G

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 1300G is a Polyamide 66 (Nylon 66) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 1300G include automotive, electrical/electronic applications and engineering/industrial parts.

Characteristics include:

Flame Rated

Creep Resistant

Fatigue Resistant

High Stiffness

High Strength

General Information	
UL YellowCard	E48285-240880
Filler / Reinforcement	Glass Fiber
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	1.39	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption				
Saturation, 23°C	--	1.7	%	
Equilibrium, 23°C, 50% RH	--	1.7	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	96	75		
R-Scale	120	112		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10000	8000	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	190	135	MPa	ISO 527-2

--	186	132	MPa	ASTM D638
Tensile Elongation				
Break	3.0	5.0	%	ASTM D638
Break, 23°C	3.0	5.0	%	ISO 527-2
Flexural Modulus				
--	9300	6300	MPa	ASTM D790
23°C	9000	6800	MPa	ISO 178
Flexural Strength				
--	289	216	MPa	ASTM D790
23°C	275	202	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	15.0	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	72	83	kJ/m ²	ISO 179
Notched Izod Impact	130	150	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	260	--	°C	ASTM D648
0.45 MPa, Unannealed	265	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	3.0E-5	--	cm/cm/°C	ASTM D696
Specific Heat	1590	--	J/kg/°C	
Thermal Conductivity	0.30	--	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	28	--	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index (3.00 mm)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	HB	--		UL 94
Oxygen Index	23	--	%	ASTM D2863

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