

Leona™ 13G15

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 13G15 is a Polyamide 66 (Nylon 66) product filled with 15% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 13G15 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	E48285-240884
Filler / Reinforcement	Glass Fiber, 15% 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	1.25	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	1.2	--	%	
Flow	0.70	--	%	
Water Absorption				
Saturation, 23°C	--	2.1	%	
Equilibrium, 23°C, 50% RH	--	2.1	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	94	71		
R-Scale	120	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5800	3600	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	--	77.0	MPa	ISO 527-2

Break, 23°C	107	73.0	MPa	ISO 527-2
--	108	79.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	--	6.0	%	ISO 527-2
Break	2.5	8.0	%	ASTM D638
Break, 23°C	2.5	11	%	ISO 527-2
Flexural Modulus				
--	4900	2500	MPa	ASTM D790
23°C	4800	3300	MPa	ISO 178
Flexural Strength				
--	167	108	MPa	ASTM D790
23°C	162	116	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	9.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	26	38	kJ/m ²	ISO 179
Notched Izod Impact	49	59	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	258	--	°C	ASTM D648
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ASTM D648
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/A
CLTE - Flow	4.0E-5	--	cm/cm/°C	ASTM D696
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	26	--	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

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

