

Leona™ 13G43

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 13G43 is a Polyamide 66 (Nylon 66) product filled with 43% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 13G43 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	E48285-240889
Filler / Reinforcement	Glass Fiber,43% 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	1.50	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Water Absorption				
Saturation, 23°C	--	1.4	%	
Equilibrium, 23°C, 50% RH	--	1.4	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	96	80		
R-Scale	118	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	12700	10200	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	207	150	MPa	ISO 527-2

--	196	157	MPa	ASTM D638
Tensile Elongation				
Break	3.0	4.0	%	ASTM D638
Break, 23°C	3.0	4.5	%	ISO 527-2
Flexural Modulus				
--	11800	8300	MPa	ASTM D790
23°C	11700	8700	MPa	ISO 178
Flexural Strength				
--	314	235	MPa	ASTM D790
23°C	303	225	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	19.0	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	12	18	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	84	85	kJ/m ²	ISO 179
Notched Izod Impact	130	210	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	3.0E-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	30	--	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

