

Leona™ 54G43

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 54G43 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™ 54G43 include automotive, engineering/industrial parts, fabrics/fibers and industrial applications.

Characteristics include:

Flame Rated

Good Aesthetics

High Stiffness

High Strength

General Information	
UL YellowCard	E48285-240899
Filler / Reinforcement	Glass Fiber,43% Filler by Weight
Features	High Stiffness
	High Strength
	Pleasing Surface Appearance
Uses	Automotive Applications
	Fabrics
	Industrial 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	--	1.6	%	
Equilibrium, 23°C, 50% RH	--	1.6	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	93	--		
R-Scale	118	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	12200	7700	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	200	131	MPa	ISO 527-2
--	186	132	MPa	ASTM D638

Tensile Elongation				
Break	3.0	4.0	%	ASTM D638
Break, 23°C	4.0	7.5	%	ISO 527-2
Flexural Modulus				
--	11000	5900	MPa	ASTM D790
23°C	10600	7000	MPa	ISO 178
Flexural Strength				
--	304	177	MPa	ASTM D790
23°C	290	191	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	21	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	99	110	kJ/m ²	ISO 179
Notched Izod Impact	150	230	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	250	--	°C	ASTM D648
0.45 MPa, Unannealed	245	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ASTM D648
1.8 MPa, Unannealed	230	--	°C	ISO 75-2/A
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	32	--	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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